Colloquia Chirurgica:

Art of SURGERY

EPITOMIZ'D and made EASY, according to Modern Practice.

By Way of Dialogue.

WHEREIN

All Things necessary to be Known and Practis'd in the Cure of Tumors, Ulcers, Wounds, Fractures, and Dislocations, are concisely handled, practically and plainly apply'd; the Rules so short, that the Whole may with ease be remember'd; and the Method so certain, that it may be always safely depended upon: Whereby every one may be able, in a very short time, to give an Account of his Profession, without reading a Multitude of Books.

To which is added

A COMPENDIUM OF ANATOMY,

Containing, in a very few Words, the principal Matters relating to the Structure of Man's Body, and which are most necessary first to be learnt by every Young Practitioner, for whose Benefit the Whole is made publick. The like (for Brevity and Method) not extant; and which may be of universal Use, as a Pocket-Companion, both by Sea and Land.

The Fourth Chicion, Rebifeb and Correcteb :

To which is added,

An APPENDIX, containing a Safe and Easy Method to cure the Venereal Disease.

By JAMES HANDLET, Surgeon: Formerly of the ROYAL NAVY.

Quam quisque novit Artem in ea se exerceat.

LONDON:

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THE

PREFACE.

T affords me no small pleasure, to see this little Manual come now to a Fourth Edition, in spite of all its

Enemies; Some of whom say, it is a needless Piece, it teaching nothing but what may be met with in other Authors; whilst some complain, that it renders the Art too easy to be attained, so that hereby almost any body may soon learn to be a Surgeon: and (as I am informed) very soberly wish me hang'd (I thank them) for publishing so plain a Treatise.

As to the first, I answer, that it was at first written with a View only to instruct the young Surgeon what to do, and how to answer any common Question, that could be put to him, without reading a multitude of Books, or over-charging his Memory with their nume-

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rous Instructions: Especially such, as are thirsty after Knowledge, and have either Time to read, or Money to purchase them. The young Surgeon that reads this, with attention, I am persuaded, will not call this a needless Performance, (the Sale of three former Impressions already sold off, are a strong evidence of the contrary;) and as for the old Practitioner, he has no cause to hurry himself about it, for it was never designed for him. And if what is here said, may be found in other Authors, I conceive it is not therefore the less valuable; because, when you read this, you read them, at the same time, without buying of them, and the young Tyro is hereby prepared to comprehend and digest what he may read in others, without asking questions of any one. He that designs to be a Scholar must not begin by reading Homer and Virgil, but the Rudiments of Grammar, and Books of a lower Class; and so proceed gradually, that he may with more ease, understand those of a higher, in due time.

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And as to those, who think I expose the Art too much, and make it too cheap, they will do well to consider, that none but those of some Learning are capable to understand what is here written: and such, (if design'd for Surgeons) cannot have too much affistance, nor be informed in too plain a Method: and as to the Intruder, and the Illiterate, that has no Education, nor any Notion of the Art, until he reads this, it will be of no more benefit to him, than if it was wrote in Hebrew. It being of u/e only to fuch, as are educated under some good Practitioner in the Art, and that are daily attending upon Patients, and so may compare what they read here with their Practice, and thereby so imprint the Art on their Minds, that they may be able to render a reason for every thing they do: and he ought not to be called a Surgeon, that cannot. And if this be to make me worthy of blame, let them that are offended rail on, and welcome, whilft (I doubt not) my young Brethren will give me thanks.

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To this Edition, I have added an Appendix, containing most certain Rules how to treat a Patient, under the Venereal Disease, in almost every Case that can occur; which to the young Surgeon (I hope) will render the Pook Bill movements the

the Book still more valuable.

I confess, with sorrow, that the Errors of the Press, in the last Edition of this Book were intolerable; which my distance from it, rendered me uncapable to prevent. But I hope, this will not meet with the same Fate: and where any misprintings shall appear, I beg the Reader to be so good as to correct them (as he goes along) with his Pen; and to have the Charity to believe, that all such Errata are my Vexation, and should not pass uncorrected by my own Hand, could I have attended the Press in Person.

And altho' by reading many Books, the Judgment may be confounded, yet it is certainly very necessary, that the young Surgeon should read some of the best that are extant: in order to which, I would recommend to him in particular,

lar, Dr. Daniel Turner's two Volumes of the Art of Surgery: I say, the ingenious, the incomparable Dr. Turner! formerly a famous and expert Surgeon, and now, as celebrated a Physician; a Gentleman of great Erudition, and uncommon Skill in both Professions, in whose Books the Reader will find abundant

Pleasure and Information.

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And I would advise bim, to study well the Reduction of Fractures and Dislocations; and not to suffer those Vermine, that dignify themselves with the despicable Name of Bone-setters, to run away with this great Branch of our Art, who know nothing of the Structure of those Bones, nor their Articulations, which they impudently pretend to reduce, when fractured, or dislocated. It is a melancholy Consideration, that these Bone-coblers, that, like Mushrooms, start up without planting, that have neither Learning nor Education, nor know the Number, or Names, nor Formation of any Bone in a human Body, nor have any one Qualification, but audacious Affurance; A 4

Assurance; yet should be so much in the Favour and good Opinion of Country People, that they apply to them as Oracles, and freely submit to have their Limbs violently extended by them, for noreason, but a singleContusionorSprain, which these Bone-Tinkers call Dislocations or Fractures; and then willingly pay them, as if the Case really had been so. Whilst the honest Surgeon that would not come into the Bite, is discarded; and for his Integrity, look'd upon as an Ignoramus. For as a Surgeon will not pronounce a Bone fractured or diflocated that is not; yet these Bone-setters, if they are called in after him, seldom fail to declare that one of them, if not both, is the case: and altho' it is impossible in Nature, (where there is really a Fracture, or Dislocation) for the Patient to use his Limb in so short, (or much longer) time: yet when one of these Deluders pretends to reduce a Bone, and the Patient is abroad again, and at work, in a Week or ten Days time, the People are so infatuated, that they believe

lieve it not only possible, if done as it ought, but actually believe it was so, because their Bone-setter told them, that their Case was such: and really think it the Effect of his superior Skill; when the truth of the Matter was, that there was neither Fracture, nor Dislocation, nor any thing more than a Contusion, or Sprain.

There is one of these Fellows, not many Miles from me, who by virtue of a Diocesan License, makes this bis daily practice: and altho' his Original was a Sowgelder, and now actually follows the Trade of a Farrier; yet this wicked Mortal has more Business (not only in Bone-setting, but in all Cases of Surgery also) than any three Surgeons in the County. Yet he is so ignorant, that I Spoke with a poor Man, on the infide of the Juncture of whose Knee, he divided the Skin, and endeavoured to cram in a Pea, in order to make an Issue there upon the very Bone. But it is all lost labour to tell the ignorant Country People of these Abuses, they believe it only Malice and Ill-will against their

their Bone-setter, because he does (as

they fancy) what we cannot.

I remember that near forty Years ago, I affifted Mr. Pepper and Mr. Maurice Berkley Sen. two ingenious Surgeons, in amputating an Arm, which, but the Evening before, received a simple Fracture on the Os Humeri, near the Shoulder; and one of these Bone-setters being called to reduce it, bound up the Limb so bard, and tied a set of Hoopsticks, with sharp Ends, and no Coverings, so very tight round it, that all Circulation was stopp'd, the natural Heat extinguished, and a Sphacelation induced, past all Recovery: and which nothing could remedy, but Amputation. And yet this Wretch, this Blunderbuss, knew not how to prevent it, nor ever dreamt of the Bandages being too hard, or remember'd the hard sharp Ends of his Splints, as the Cause of the poor Patient's miserable Complaints of Pain, &c. for if he had, by loofing the one, and arming the other in time, the Mortification might easily have been prevented: but (as

I remember) he told the Patient, that his Pain was nothing but what was common in such Cases, and so made no further Enquiry, until the Cause was found out by a wiser Man, when it was too late.

The like bappened not many Miles from me, a few Years since; and the Surgeon that amputated the Arm affured me, that the Bandage was not only so tight, as to cause the Mortification, but the two Ends of the fractur'd Os Humeri rode over one another an Inch or two; such a bungling Pretender was the Bone-setter, and who notwithstanding is in as great voque as ever, with all the Country People round about him.

The Surgeon that amputated this Arm, was that excellent practical Surgeon and Scourge of all Bone-bunglers, Mr. Charles Rome of Wooburne in Bedford-shire, mentioned in the Preface of the last Edition of this Book with bonour: who lately favour'd me with several Histories of the vile Ignorance of these Fellows, very surprizing; but they being too long to be inserted in this Preface,

I must (tho' unwillingly) omit them. I can only here give the Reader part of a Letter he sent me, with the former

Histories, (viz.)

Sir, According to my promife, I here fend you a few Remarks upon the Conduct of those vile and wicked People, who call themselves Bone-setters, brought up to the Plow, fome of them; and others, to the most fervile Employments; and the generality of them fo ignorant of the Frame of a human Skeleton, and the Articulations of the Heads of the Bones therein, that scarce one of them I ever met with, was capable of giving proper Names thereto, or of laying down the Rules, of knowing each several Dislocation, or the means by which, in the most commodious manner, they are to be replaced: only boldly pulling and hauling the Patient about, and then afterwards affirming, that they have done the Work, &c.

Therefore, you my young Brethren, Spare no pains to make yourselves Masters of this Branch of our Art, and get such fuch a Perfection in the Knowledge of the Structure of the Bones, and their Articulations, by studying well a buman Skeleton, that you may be able, at fight, to pronounce a right Judgment, and not be mistaken, by declaring a Bone fractur'd or dislocated, when it is not; nor by affirming, that it is not so, when it really is. For in the first Case, you commit a Fraud; and in the latter, you make a Cripple, and stain your Reputation; all which every Surgeon ought carefully to avoid, as he values a good Conscience, or a good Name: not but sometimes, in some Cases, where the Limbs are very muscular, and large, and much tumified, and the Injury not very evident (as it sometimes happens) a good Surgeon may be puzzled to make a right Judgment at once: therefore, in such a case, be very cautious, lest you fall into an Error, which, however, with due Care and Consideration may be avoided. And when you are sure that there is either a Fracture or Dislocation, be not discouraged, but go chearfully,

fully, manfully, and like an Artist, to work, to reduce it; which how to do, you will find sufficient Directions in this Book, if you have Courage, and a com-

petent Measure of Skill.

And if you desire Information in many other Parts of your Art, and would be further enabled to give a rational Account of what you do, and of the Reason of a multitude of uncommon and curious Things, as delightful as prositable; I would recommend to your Reading a Book of mine, called, Mechanical Essays on the Animal Oeconomy. I shall say no more in its Recommendation, because it is mine; but do believe you will not think the time ill spent, when you have read it.

J. HANDLEY.





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Colloquia Chirurgica:

OR THE

ARTOSURGERY

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CHAP. I.

Of Tumors in general.



HAT is Surgery ?

A. Surgery, or Chirurgery, by its Etymology, The xeleds spar, fignifies Manual Operation; and by the Learned in that Art, is defined to

be, The third Branch of the Curative Part of Medicine, which teacheth how sundry Diseases of the Body of Man are to be cured by Manual Operation.

Q. How ought a Surgeon to be qualified?

A. He ought to have a reasonable Experience in all Parts of his Art; to have a competent Stock of Learning; to have an unshaken Courage, a steady Hand, a clear Sight, to be able to give a rational Account of what he does, and to be an bonest Man.

B

Q. What

Q. What is a Tumor?

A. It is a Disease, for the most part, incident to the Organical Parts, increasing their Quantity above Nature, by reason of receiving supersuous Humours, sent from other Parts.

Q. How are those Humours received?

A. By Affluxion or Congestion.

Q. What is Affluxion?

A. It is when an Humour offending, either in Quantity or Quality, suddenly and with Violence, seizeth upon any Member, either by reason of its Weakness, Rarity, Looseness, Dependency, Heat, or Pain, or because the whole Body is full, and the Parts sending, strong.

Q. What is Congestion?

A. That is when an Humour is collected in any Part, by little and little, by reason of the Weakness of the concocting and expelling Faculty of the same.

Q. What do you mean by an Organical Part?

A. Chiefly a Muscle; in which are a Membrane, Flesh, Tendon, Oc. Also a Nerve, which conveys the animal Spirits, and distributes them; and the Arteries, which do the same by the Blood.

Q. What are the Denominations of a Tumor?

A. In Greek it is called byn ; that is, a Protuberance in the Body: The Arabians and their barbarous Followers call all Tumors Apostemata; in Latin Abscessus. All Tumors, wherein is a Collection of Matter, we call Apostems. The Word Tumor is a Latin Word, and is derived from the Word Tumeo, to be raised or pussed up.

Q. What are the Causes of Tumors?

A. Surgeons reckon up eight External Causes, (viz.) 1. A contagious Air in time of the Plague.
2. Things exceeding Temperature in the active Qualities; as, Vesicatories, sitting long on a cold

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Stone, &c. 3. When too hard Ligature is made upon a Part. 4. The Application of Cupping-glasses. 5. A Wound, Fracture, Luxation and Contusion. 6. Biting of any Beast. 7. By taking Things inwardly offensive to Nature. 8. Immoderate Motion, whereby immoderate Heat is produced, and the Humours become more subtil.

Q. What are the Internal Causes?
A. Either Humours or Flatuosities.

Q. What are the Humours?

A. Either Natural or Unnatural, and they again either Sincere or Mingled.

Q. Which are those which you call Sincere?
A. Choler, Phlegm, and Melancholly.

Q. Which do you call Mingled?

A. When one of the former is mingled with the Blood; (for Blood is no where Sincere, but according to the Humour mingled with it, which is predominant) it is called Cholerick, Phlegmatick, Melancholly Blood.

Q. What are the Unnatural Humours ?

A. Water; as in the Dropfy, &c. Q. What other Distinctions have you?

A. Simple and Compound.

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Q. What do you call a Simple Tumor?

A. If it proceed from Blood, (tho' it be never unmixed) it is called Phlegmone, or Inflammatio; if from Choler, Erifipelas and Herpes: All which are hot Tumors. Of Phlegm, is an Oedema; of a Melancholly Juice, is a Schirrus: And these two are cold Tumors. If from Atra Bilis, Cancer; if from Water, it is called Tumor Aquosus; and particularly from hence come Hernia Aquosa, Hydrops, Hydrocephalus, &c. If from Flatuosity, it is called Emphysema: And these are caused by the defect of the natural Heat.

Q. What do you call Compound Tumors?

4 Of the Indications of Tumors.

A. When there is a Combination of these, they beget a Compound Tumor, and what Humour most predominates, carries away the Name; as Phlegmonodes, Erisipelacodes; and so of the rest.

CHAP. II.

Of the general Indications of Cure in Tumors.

Q. What is an Indication?

A. It is that which sheweth what
Course is to be taken for the Recovery of Health.

Q. From whence are the general Indications taken?

A. Either from the Matter, or Times of every
Tumor.

Q. As how?

A. In the Matter, we are to observe the Motion of it, and its Nature; as concerning its Motion, it is either in flowing, or is already received into the Part.

Q. What are the Causes of Fluxion?

A. Two; (viz.) Plethora, or Fulness; and Cacochymia, or an ill Habit. Plethora is of two sorts, ad vasa, and ad vires.

Q. What do you understand by that ?

A. Ad vasa, is when the Veins are only full, and the Body nevertheless quick and nimble: And that it is again (1) pure, when there is a due Proportion of the Humours of the Body; and (2) impure, when there is an Excess of any of the three Humours, besides Blood; as Phlegm, Choler, and Melancholly. Ad vires, is when there is such a Fulness as causeth a Lassitude of the whole Body.

Q. What must be done in this Case?

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A. Plethora, requires Phlebotomy; and Cacochymia, Purging: Both which are to be done according to the Strength of the Patient.

Q. How do you discern Strength and Weakness?

A. By the Functions, thus: The Weakness of the Natural Faculty is discerned by Crudity of Urine, and Excrements of the Body; the Weakness of the Vital Faculty, by a weak Pulse, and by breathing weak, and fick; and the Weakness of the Animal Faculty, is found out by defect in moving, and feeling.

Q. What are the Ends of Phlebotomy?

A. Derivation, and Revulfion.

O. What are they?

A. Derivation, is a drawing of the Humour to the Part adjacent, or of the same side, by opening a Vein, or a Branch of it, which is inferted into the Part affected. Revulfion, is a drawing of the Humour to the opposite Part, as from the Head to the Feet, from the right Side to the left, Oc.

Q. What more will you do, to prevent, or abate

Fluxion?

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A. Since a hot Distemperature is most commonly the Cause, we must apply Things cooling; as Cloths moistened in Ol. Rosar. or Violar. laid on cold, and renew them as they grow hot; or apply Unquent. Rosat. de Cerussa, Populeon, &c. between two Cloths.

Q. Why between two Cloths?

A. It thereby keeps the Ungue from drying, and doth not hinder the perspirating of Vapours, which it otherwise would do, and thereby increase both Pain and Heat. The same we are to do also when we apply Cataplasms to this purpose.

Q. But what if the Ways by which the Tumor passeth be too large, and a hot Distemperature joined.

how will you proceed then?

A. Then

6 Of the Indications of Tumors.

A. Then Things aftringent and cooling are to be applied, Rollers and Cloths being moistened in them: As, Bacc. Myrtil. Fol. Rof. Rub. Sicc. Cort. Granat. Balauft. Sumach. Cort. Querci, &c. Coq; in Vin. Rub. vel Aceto, & Aq. Font. And the Parts by which the Humours pass, are to be rolled pretty straight with Rollers dipped in the same.

Q. But suppose the Tumor be painful?

A. Then I use Anodynes or Narcoticks.

Q. What are Anodynes?

A. They gently Contemperate the Part, by reafon of the Conformity which they have to the
Nature of Man; are hot in the first Degree, and
are of subtil Parts: As, Lac, ol. olivar. vet. axung.
porcin. adeps humani, anseris, gallin. ursi, Ol. Cham.
lilior. lumbricor. lini, amygd. dulc. ovor. ol. Rosar. pul.
Croci, &c. Or make this Cataplasm; R. Fol. visc.
pomorum cum fructibus, and Mj. Fol. Hyosciami Mij.
Fol. papaveris Mj. sub cineribus coquantur, addendo
tandem Mic. panis in latte tepido macerati, vitell.
ovor. N°. ij. pulv. Croci. 3j. ol. Cham. & Rosar. ana
q. s. stat Cataplasm. S. A.

Q. What are Narcoticks?

A. They deprive the Part of the Faculty of Feeling: And such are, Opium, Hemlock, Night-shade, &c. These are to be used when the former will not prevail. Sometimes (but seldom) they are used alone, and sometimes with Things hot, if we fear Stupesaction of the Part unto which they are to be applied.

Q. Suppose the Tumor proceeds from the Bite or

Sting of a venomous Beaft?

A. (1.) Then the Part is to be immediately scarrified, and Cupping-glasses to be applied; and then the Part is to be somented, cum Aceto & Ther. Ven. and a Cataplasm ex Ther. Ven. applied over all. The Member is to be bound hard two

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or three Inches above the Bite or Sting; and Ther. Ven. cum Sal. viperar. to be given inwardly three times a Day: Or, R. Fol. Ruta contus. 3vj. allii contus. Ther. Ven. vel Mithridat. & Rasura Jovis, ana 3iiij. coq. super lento igne, in Cerevis. fortis. thiiij. ad thiij. & Colat. &c.

Keep it in a Bottle close stopt; the Dose is 9 or 10 Spoonfuls, seven Mornings fasting, warm, as soon as possible after the Bite; and apply some of the Ingredients to it daily, warm. vid. Pharm. Bat.

Q. What do you understand by the Times of a Tu-

mor?

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A. I understand the Beginning, the Increase, the State, and the Declination.

Q. What do you call the Beginning of a Tumor?

A. The Beginning I take to be, when a Part begins to tumify.

Q. What Medicines are then most proper?

A. Repelling Medicines, which are cold, and of a gross Substance, to thicken the Part affected, and to cool the inner Parts of it: And such are, Alb. ovor. plantag. semper-viv. solan. petroselin. fol. Ros. rub. Bacc. Myrtill. Cort. granat. Gallia, sang. Drac. Ter. sigillat. Acet. &c.

Q. Are you to use repelling Medicines in all Cases?

A. No: As, (1.) If the Matter be venomous or malignant, lest being repell'd it assault some principal Part. (2.) If the Matter be critically turn'd to a Part. (3.) If a Plethora abounds. (4.) When the Humour sloweth to the Emunctories. (5.) If the Part have but little natural Heat, lest it mortify. (6.) If the Pain be very great; for then only Anodynes are to be used.

Q. What do you call the Increase of a Tumor?

A. When the Part is stretched, and Symptoms increased.

Q. What is Discussion?

A. It is an Evacuation of a thin Matter, (gathered in a Part) by infensible Perspiration, procured by the natural Heat, increased by proportionate Medicines, &c.

Q. What do discussive Medicines effect?

A. They help natural Heat: Which being done, (1.) The Humour is made thin. (2.) It is resolved into Vapour. (3.) It is drawn from the Center to the Circumference. (4.) It is expell'd by the Pores of the Skin: Wherefore they must be familiar to Nature, and such as perform their Office by consuming supersuous Humidity, and must be hot and dry.

Q. How many Degrees of discussive Medicines are

there?

A. Three: (viz.) (1.) Those that are hot and dry in the second Degree: As, Fic. Cham. Galb. Rad. Lilior. Melilot. Adeps anseris, Althea, &c. and because such ease Pain, we should ever begin with them. (2.) Those that are something more hot and dry: As, Calamint. Puleg. Hyssop. Menth. Sem. Cymin. Anethi, farin. fabar. & fanugrec. adeps Urst Can. vet. &c. (3.) Those that dry in the third Degree; as Nitre, unslaked Lime, Sulph. viv. &c. If the Tumor is hard, forbear Repellents, and use Discutients and Emollients; R. Rad. & Fol. Althea, ana Mj. Sem. lini & fanugrec. ana 3vj. pulv. flor. Cham. & Melilot. ana 3ij. far. Hord. & Tritici ana 3vj. fiat Cataplasm. addendo Mel. Com. 3ij. Ol. Sambuc. & Axung. anseris ana 3j.

Q. What do you call the State of a Tumor?

A. When it is come to fuch a Degree as it can grow no bigger.

Q. How do you know when that is?

A. All Symptoms are at their height, when neither increasing, nor decreasing.

Q. What will you do then?

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A. Use Anodynes with Discutients, by reason of Pain.

Q. How will you know when the Tumor declines?

A. When the Symptoms begin to abate.

Q. What must be done then?

A. I must then use strong Discussives, as before spoken of; or in case of Necessity, Diach. cum gum. Diach. Ireat, &c.

Q. How do Tumors end?

A. By Resolution, Maturation, Induration, and Corruption; and as Discussion is better than Suppuration, so Induration is better than the Corruption of the Part.

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CHAP. III.

Of Curing Tumors in general, come to Suppuration.

Q. CUppose you cannot discuss a Tumor, What will

you do then?

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A. Bring it to Suppuration, or Maturation, vulgarly call'd Apostemation; and that is, when the impacted Blood, or Humour, is converted into laudable Matter.

Q. How is this done?

A. By ourward Applications laid on warm, which working upon the superfluous Humidity, causeth Putrefaction.

Q. But suppose it attended with Pain, would you

not use Narcoticks?

A. No, for they extinguish the Natural Heat of the Part, which is the principal Cause of Collion; they also thicken the Matter, and make it more rebellious: but instead of them I use Anodynes, which we spoke to before.

Q. But

Q. But what if Hardness possess the Part?

A. Then I use Emollients.

Q. What are they?

A. All Fats: Omn. Spec. Malv. tustilag. Sem. Cydonior. lill. alb. Sem. lini. fic. Uvar. past. Medul. Omn. Ammoniacum, Bdellium, &c. of which Cataplasms may be framed.

Q. But if immoderate Heat trouble the Part, what

must be done?

A. I must use things cooling in the second Degree; as, Umbilic. Veneris, semper-viv. lil. aquatic. plantag. farin. Hord. &c.

Q. But when these Accidents are removed, what

then?

A. Then I proceed to affift Nature, by increasing Natural Heat, by suppurating Medicines which ought to be such as moderately stop the Pores, only suffering the sharp Vapours to breathe out, and to detain those which are mild and thick.

Q. What suppurative Medicines do you use?

A. Of suppurative Medicines there are two Ranks; of the first, is Adeps humani, anseris, gallin. Butyr. Ol. olivar. fic. sem. lini & fænugrec. Malv. farin. tritici. rad. fill. alb. &c. Of the second sort are, Gum. Galban. Ammoniac. Elemi, pix Burgund. & Naval. Croci, Cape tost. ol. Cham. adeps Can. & Urst, Empl. è Mucilaginibus, Diach. cum gumm, &c. of which Suppuratives may be framed at pleasure: Or (for Example) & Rad. Lilior. alb. ziij. capar. cost. sub cineribus zij. summit. althea Mij. fic. ping. tost. N°. vi. coq. & contus. adde far. tritici. zij. pulv. sem. lini zi. axung. porcin. zij. ol. Lilior. q. s. cum vitel. ovor. N°. ij. Croci zs. fiat Cataplasm.

Q. How do you know when a Tumor is come to full

Maturation?

A. (1.) The Tumor by contracting it felf, feems less than it was in the State. (2.) It draws

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itself to a Point. (3.) Hardness and Tension are much abated. (4.) By pressing with the Finger, we may feel the Matter sluctuate. (5.) The Patient feels much Ease. (6.) The Heat ceaseth. (7.) The inslamed Part (especially at the Point) will become white. (8.) The Cuticula will be shrives!'d.

Q. Why should Contraction be a Sign of Suppuration?

A. Because whilst natural Heat concocts the Matter, Vapours are raised by the Heat, and so the Part is distended; but when the Matter is concocted, the Elevation of Vapours cease, and the Tumor a little falls.

Q. Why should drawing to a Point be a Sign?

A. Because when Nature overcomes the Matter, it draws it together to the Skin, and having conquer'd her Enemy, expels him.

Q. Why should the Abatement of Hardness and

Tension be a Sign?

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A. Because Suppuration being procured, many Vapours are discussed, which before stretched the Skin, and made it hard.

Q. Why should the Patient's Ease be a Sign?

A. Because the sharp Vapours are resolved, and the Matter being well concocted, makes the Parts more loofe.

Q. How will you open an Apostem come to full Maturation?

A. Two ways. (1.) By Incision. (2.) By the Potential Caurery.

Q. Which do you esteem the best?

A. The Potential Cautery gives the most large and certain Discharge; but in Apostems of the Face, they are to be shunned, because of the Scars they leave behind them: but in other Places I use them, in large Tumors, or to gratify timorous

timorous Patients, who will not admit of Inci-

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Q. What is the Potential Cautery compos'd of?

A. Soap-Lees, and unflaked Lime, mixed to the Confishence of an Unguent; or black Soap and unflaked Lime so mixed. Of a stronger sort, and which must be used with great Caution, are Lapis infernalis, (mixed one third, fourth or sister Caustick, Oc. But either of these being used in the form of an Unguent, must be spread upon a Pledget of Lint, and laid upon the most soft and depending Part of the Tumor, with a Plaister of Diapalma (or some such all round it, to keep it from spreading; which it will do, less or more, tho we do all we can to prevent it, therefore the Pledget must be made but small.

Q. How long is the Caustick to lie on?

A. I allow for the common milder fort twelve Hours; for the strong, not so much. If you apply the Silver Caustick, hold one end of it between your Fingers, covered with a Rag; and having just wet the other end, apply it to the Part, holding it on close, now and then wetting it asresh, and in a little time you will have an Eschar. By doing this on a particular Occasion to a sound Part, and managing it thus for three Hours, I have made an Eschar without Pain; which, when it has been divided, digested, and separated, has lest a Cavity big enough to turn the end of one's Thumb in, and an Inch deep. I only hint this, to shew what may be done, with prudent management.

Q. What are you to confider when you come to open an Apostem?

A. I am to be careful to shun Veins, Arteries, Nerves, and Tendons; if the Skin is only to be divided, divided, the Incission is to be made strait; but a Muscle is to be cut according to its Fibres; and it must be opened in a depending Part, because of giving a free Discharge to the Matter, which would otherwise be kept in, and insinuate itself deeper. It must also be divided where the Part is thinnest, to avoid Pain; the Apertion must be proportionate to the Tumor, and the Discharge according to Reason; not too much at once, for fear of weakening the Patient too much.

Q. What Accidents follow the opening an Apostem?
A. Fainting, Pain, and a Flux of Blood.

Q. How are these to be remedied?

A. In case of Faintings, give Cordials or Wine; if Pain, imbrocate with ol. Rosar. &c. and as for the Flux of Blood, it is to be stopped with Bol. Sang. Drac. alb. ovor. acet. &cc. mixed and applied on Tents and Pledgets, with good Boulsters and Bandage over all, &c. and so let it remain 24 Hours.

Q. How will you dress it after opening, if there is

no Flux of Blood?

A. If I find that the Potential Cautery has done its Business, by making an Eschar, I take off the Caustick, wash out the Salts with warm Milk or Water, divide the Eschar, and dress it with warm Basilicon, or some other Digestive, till it falls off.

Q. What must be done then?

A. Dress it with Basilicon alone, or mixed with Merc. pracipit. Rub. or dipt in Spir. vin. and sometimes if there is much Putresaction, inject Spir. vin. per se, or mixed cum mel. Rosar. as I see occasion: and if it be very hollow round about, be sure to dilate it by Incision, or cut off the Lips, if they grow callous, &c. After it is well digested, I Mundify, Incarn, and Cicatrize.

Q. How do you know when it is well digested?

A. When

14 Of Curing Tumors, &c.

A. When the Matter is thick, white, fweet, even, and less than it was, and the Part looks clean.

Q. How will you Mundify, or Deterge?

A. Many Surgeons have many Methods; the most common way is with Ung. Apostolor. Ung. Ba-filic. O pracipit. rub. or tereb. Ven. mel. Rosar. Sarcocol. Myrrb. Rad. Aristol. Rot. Mundificativ. Paracels. ex apio, &c.

Q. With what will you Incarn?

A. With Liniment. Arcai, Gum Elemi, &c. and fometimes I use Digestives and Incarnatives together, as the Occasion requires.

Q. How do you know when it is fit to Incarn?

A. When the Part is very clean, and has little red granulated Spots appearing in it, and a small Discharge of Matter from it.

Q. When is the time to Cicatrize?

A. When the Ulcer is almost incarned even with the Cutis; not sooner, lest it should heal with a Cavity; nor later, lest a deformed Scar is produced.

Q. With what will you Cicatrize?

A. With Unguent. Defice. Rub. Aq. Calcis, or dry Lint, prepar'd out of fine Cloth, dipt in a Diffolution of Vis. Rom. in Water, and dried, or Liniment. Arcai, washed in Aq. Calcis, &c.

Q. What if a Fungus, Hyperfarcosis, or Spongy

proud Flesh arises?

A. I take it off with Merc. pracipit. Rub. Allum. uft. and sometimes by the Knife, Oc. and in some rebellious Cases, by the actual Cautery.



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CHAP. IV.

Of a Phlegmon, shewing the general Method of its Cure.

Q. What is a Phlegmon?

A. It is a hot Tumor, proceeding from the Affluxion of Blood to any Part.

Q. From whence is the Name derived?

A. Φλεγμονή is derived from φλέγω, from whence flagro, to burn, by reason of its heat.

Q. What is the true Cause of a Phlegmon?

A. It is caused by good Blood offending in quantity.

Q. What are the true Signs of it?

A. It fuddenly begins, and speedily increaseth; it is very hot, of a fresh Colour, is attended with great Pain, Pulsation, Tension, and the Veins are often very apparent, black, or ruddy.

Q. What are its Differences?

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A. If it seize upon the Meninges of the Brain, it is called Phrenitis; if on the Conjunctiva of the Eye, Ophthalmia; if on the Muscles of the Throat, Angina, or Quinzy; if on the Pleura, Pleuritis, or Pleurify; if on the Lungs, Peripneumonia; if on the Emunctory of the Heart and Liver, Bubo; if under the Ear, Parotis: otherwise it carries the general Name of Phlegmon.

Q. What are (in short) the Means of a Cure?

A. They are two: (viz.) A fit Dier, and proper Applications. In the beginning I order a thin and cooling Diet, and only what is sufficient to support Nature; as, Chicken or Veal-broth, Watergruel, cooling Salads, Barley-broth, Spinage, Sorrel, Purstain, &c. His Drink, Small-Beer, Barley-water made palatable with Syr. Violar. or Syr. Sacchari, and such like: He must forbear Wine, Eggs, Flesh, Spices, Stale-Beer and Ale, &c.

Q. Suppose the Humour flows immoderately, how will

you abate it?

A. By Phlebotomy and Purgation.

Q. What are you to confider in Phlebotomy?

A. The Season of the Year, and Age and

Strength of the Patient.

Q. Why is Purgation of use here, fince no Blood (which is the Matter of a Phlegmon) can be spent that

way?

A. Catharticks or Purgatives, dry the Body and deprive the Blood of Moisture, and make it more unapt to flow; and by purging out sharp Humours, which irritate the Part affected, the Enemy is conquered with more Ease.

Q. What Catharticks do you use in this Case?

A. Lenitives, as Cassia, Tamarind. Elect. Leni-

tiv. &c.

Q. What elfe is to be done?

A. Discussives, (of which I gave an Account before) Defensatives and Repellers.

Q. What do you call Defensatives?

A. These are such as by their astringent Nature, purse in, and contract the Vessels, thereby hindering the Humour from flowing to the Part, and are in Nature cold and dry.

Q. Where must they be applied?

A. To the Parts contiguous, to the Joints and Parts above them.

Q. Why for

A. Because there the Vessels are more plain and conspicuous, and so apt to receive Impression from the Medicine.

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Q. What are your defensive Medicaments?

A. The more mild are, Succ. Plantag. Rof. Alb. Nigell. Papav. Rhead. Aq. Sperm. Ranar. Vin. Rub. Acet. Oxileum, &c. Cloths being dipped in them, and applied, and often renewed; or the common Defensative of Diapalma and Bole, spread upon Cloth or Leather.

Q. What is Oxileum?

A. Acetum & Ol. Olivar. commixt. The more strong Defensives are, Bol. ver. Sang. Draconis, Ter. figillat. Ol. Myrtillor. Mastic. Albumin. Ovor. &c.

Q. What are Repellers?

A. Such Medicines as drive back the Humour from the Part.

Q. What are they?

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A. Some are mild, being cold and moist, as Lattuc. Cichoreum, Portulac. Alb. Ovor. Nigel. &c. And some are more strongly cooling, as Cicut. Mandragor. &c. Again, some are more astringent, cooling and drying, and repel more strongly than the others. Of these some are weak, as, Fol. Plantag. Fol. Ros. Rub. &c. And others are more strong, as, Bol. Cort. Granat. Vin. Rub. Allum. Gallia, &c. All which may be made into Cataplasms, with Far. Hord. &c. Or thus, & Far. Hord. zvj. Pulv. Cort. Granat. zij. Pulv. Balaust. zss. Succ. Sedi Major. zij. Vin. Rub. q. s. Coq. ad consist. Cataplasm. & in fine Costionis adde Ol. Myrt. zij.

Q. When are these to be applied?

A. In the beginning of the Tumor, and so long as I see any good Effect from them.

Q. What Mischief comes of their untimely Appli-

cation?

A. They wrinkle the Skin, increase the Pain, harden the Humour in the Part, and often return it to some Noble and Principal-Part.

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Q. How

Q. How do you know when Repellers are to be applied?

A. They are to be applied if the Patient comes

A. They are to be applied if the Patient comes whilft the Blood is yet in the small Veins; because then the Humour is but little and thin; Nature is strong, and the Matter is not yet settled: And, as I see Occasion, I sometimes apply Repellers and Discussives together.

Q. In what Cases are repelling Medicines not to be

used?

A. (1.) If the Part be weak, lest its natural Heat be extinguished. (2.) When there is great Pain; because they would cause greater. (3.) When the Fluxion is violent; for then they would be fruitless.

Q. Tell me (in short) how you will manage it,

from first to last?

A. In the Increase of a Phlegmon, I use repelling Medicines, and sometimes with discussing; because until the latter end of the Increase, there is hopes that the Matter may be repelled; but when the Blood is once slipt out of the Veins, and the Phlegmon begins to abate, I immediately sly to Discussives, which make the Blood thin and apt to flow, convert it into Vapours, and evacuate it by the Pores of the Skin: And if, notwithstanding all this, there be Tension or Swelling, then I endeavour to procure Suppuration.

Q. How is Matter produced?

A. By a natural and unnatural Heat encountering together.

Q. Why is it termed Good, if it be White?

A. Because that shews it to be produced of natural Heat, and is caused to be white by the Coats of the Veins, Arteries, Nerves and Membranes, which are in Colour white, and turns the Matter into the same Colour.

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C H, A P. V. Of an Erysipelas.

Q. W Hat is an Erysipelas?

A. It is a hot Tumor, proceeding from Choler, of a bright red Colour, tending to yellow, without Pulsation or circumscribed Tumor.

Q. Is Choler always yellow?

A. For the most part, and in a healthful State it is; but in a Morbose State it is often of several other Colours, as pale, black, eruginous, reddish, vitelline, &c.

Q. Why do you call this Tumor equantities?

A. From Eguouv (which the Ancients used to fignify Red) and make, signifying near. So that it is a Tumor in Colour coming near to Red.

Q. What are the Signs of it?

A. Great Pain and Heat; the Colour of it of a bright red, tending to yellow; it is small, possessing only the Skin, and is attended with a Fever.

Q. What is the Difference between a Phlegmon

and an Erysipelas?

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A. A Phlegmon possessible the Skin and Flesh under it; an Erysipelas only the Skin: a Phlegmon is of a dark red Colour, by reason of thick Blood lying deep; but an Erysipelas is of a bright red, tending to yellow; a Phlegmon settleth it self in one Part, but an Erysipelas makes red the adjacent Parts by spreading; a Phlegmon comes of Blood, an Erysipelas of Choler, in which the Heat and symptomatick Fever is greater than in a Phlegmon also.

Q. What Prognosticks are you able to make?

A. That which proceeds from natural yellow Choler is mildest; if it be driven to the outward Parts, it is a good Sign; so it is bad (on the contrary) if it return from the outward Parts inward; it is more dangerous in the Head than in other Parts: If it appear in Wounds, Fractures, Ulcers, Oc. it is very often mortal, if it does not proceed from Application of too hot Medicines. If it tends to Suppuration, or if a Bone be bare, and the adjacent fleshy Parts be possess with it, it is an ill Sign.

Q. How is a Patient to be relieved that labours un-

der it?

A. By Diet, Surgery, internal Medicines, and external Applications.

Q. How is he to be dieted?

A. It must be cooling and moistening; Chicken-Broths with cooling Herbs, Oatmeal-Gruel, Panada, Spinage, Sorrel, Lettice, &c. His Drink, Aq. Hordei, Spring-Water, or Small-Beer. The Season of the Year must be considered, Sleep procured, and all Disturbances of Mind shunned, &c.

Q. Is Phlebotomy to be used?

A. It is disputable: Yet in an Erysipelas Phleg-monodes, wherein Blood increaseth the Heat, in what Part of the Body soever it be, a Vein is to be breathed without doubt; as also if it invade the Head, Neck, or Face, lest a Phrenitis or Angina follow: But in all other Places they tell us, not; because by Phlebotomy the Blood which remains, moves more quick, and becomes more subtil, that which is the Qualifier of Choler is taken away, and the Patient weakened.

Q. What are your internal Medicines in an Erysi-

pelas?

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A. I give Lenitives, as Cassia, Elect. Lenitive Diacatholic. Elect. è succo Rosar. Tamarind. Cremarat. Manna, &c. And if the Inflammation be mild, Glisters made of the Decoction of cooling Herbs, with the aforesaid Electuaries, may serve.

Q. What are your external Applications?

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A. In these I must be cautious, not to apply aftringent Medicines, which are cooling and drying, because the Vapours in this Tumor are sharp; and if they should be pent in, they might erode and corrupt the Part: The Medicines then must be cold and moist, but not Narcotick, unless the Pain be extreme, and the Grief far from any principal Part, and unctuous Medicines stop the Pores: But I use Cloths dipt in Aq. vel Succ. Umbell. Veneris, Equiset. Plantag. Lactuc. Petroselin. Papav. &c. mixed with Acetum. Also, Cerat. Refrig. Galeni, Sapo Castil. disolv. in Aq. Fontan. Aq. Sperm. Ranar. cum Aceto ex Vin. Rub. wherein some Myrrh has been dissolved. Also foment the Part with Decott. Salvia cum sapone Castil. (which I have often used with great Success) and bathe it with S. V. Campborat. And here all Medicines must be often changed, and cut the Vesications as oft as they rile.

Q. How long are thefe to be applied?

A. Till the Heat be abated, and the Skin recovers its Colour; for by using cooling Medicines too long, Lividness of the Skin, and sometimes a Mortification is procured. If it be in the Head or Face, be very cautious in your Applications, and let them be rather Exsiccant than Repellent, till the Humour has spent it self; Abstinence and a cooling Regimen being here the best Method. And some use no local Applications at all, but leave it to Nature; but I cannot approve of such a Conduct, especially where the Part is raw, Oc.

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CHAP. VI, Of an Oedema.

Q. TIT Hat is an Oedema?

A. It is a foft, loose, white, cold Tumor, caused of Phlegm; which, if press'd with the Finger, pits; and is commonly without Pain.

Q. What is Phlegm?

A. It is the fourth Part of the Mass of Blood, cold and moist, and is either natural or excrementitious. The natural is void of any foreign Taste, and ought rather to be called pituitous Blood, than Phlegm. Of the excrementitious or unnatural, there are three Sorts; (1.) Sour. (2.) Salt. (3.) That which shews like melted Glass; and is therefore called Pituita, Vitrea, &c.

Q. What is the Signification of the Word

Oedema?

A. The Greeks call it, ordness, the Latins Oedema, and (to speak in a general way) is the same with one, which signifies bunching out; and so every Tumor may be called an Oedema: but in a more strict Sense, and according to modern Writers, it is taken for this particular Tumor caused of Phlegm.

Q. What Prognosticks can you make relating to it?

A. It is commonly a continuing Disease, because the natural Heat in the Part it affects, is weak; but it is not of it self dangerous, because it is mostly without Pain; but in consumptive and dropsical Habits, it is of ill Consequence; not as it is a Disease, but as it shews the Decay of the natural Heat.

Q. How

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Q. How will you perform its Cure?

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A. It is performed by Diet, internal Medicines, and local Applications.

Q. What Diet would you advise your Patient to?

A. Always to that which is drying, and to that which is roafted rather than boiled; Fish, Hogsflesh, Heads, Brains, Feet of Beasts, and Sallads of cold Herbs, are all hurtful; but eat Biscuir, or Bread well baked, with Veal, Pullet, Rabbit, Chicken, Oc. and daily drink Wine in Moderation, and a Decoction, or Ale of Guaiacum, China, Sassafras, Sarsa, Ginger, Cinnamon, &c. and sweat upon it. Be sparing in Diet, but labour, study and watch, beacuse these dry the Body. If it possess the Hands, Walking is good; but if the Feet, then sit much, and work with the Hands.

Q. What do you prescribe internally?

A. Antimonial Medicines are good, and to be used as Occasion offers; also purge with Pil. Cochia, de Hiera cum Agarico, Pulv. Diaturbith. cum Rhabarb. Diasena, Cornachin. Pil. ex Duobus, Elect. Cariocostin. &c. with Calomel, which is a safe Method, carefully used.

Q. What think you of Phlebotomy in this Disease?

A. In a true Oedema I do not like it; because, (1.) In Bodies cold and moist, as are those which are Oedematous, we never do it, except there be a Plethora too. (2.) The Matter is not malignant; for which Reasons I forbear it.

Q. What are your local Applications?

A. The Part is to be rubbed well with a Cloth, to open the Pores for the Medicines to penetrate: Then use Bay-Salt cum Ol. Olivar. or Brandy, or Bay-Salt with Spanish Wine, or the Patient's Urine. But in the State of the Tumor, when it is large, use this Fomentation, or such like, By Fol. Absent Abrotan, Calaminth. Origani, Pulegii,

C 4 Sambuci,

Sambuci, Chamamel. Salvia, Ruta, ana Mj. Bacc. Lauri O Juniperi ana 3j. Sem. Fænic. dulcis, Carui, Cymini, ana 3ss. contundantur craff. modo. & in Ag. Fint. q. f. bulliant ad dimid. partis consumptionem, Colatura, O adde S. V. q. S. O fiat Fotus. And then use good Bandage, either by Rolling, laced Stocking, Sleeve, Trufs, or Glove. After fomenting, you may embrocate with Ol. Laurin. Ruta, de Castoreo, ana 3ij. Sal. Marini 3ij. Ms. And apply this Cataplaim; R. Farina Fabar. Hordei ana Byj. Summit. Absinth. Ruta, Origani, Abrotani pulv. ana 3fs. Flor. Sambuc. Chamameli, Rof. Rub. pulv. ana Biij. coquantur in prædict. fotu ad Cataplasmatis confistentiam addendo sub finem Aluminis & Sulph. vivi ana 3j. Ol. Ruta & Mellis q. s. Or if you would rather use a Plaister, Empl. de Sapone and Diasalphuris, are proper Discutients here. With which Fotus the Part may be fomented, or large double Cloths wet in it, and apply'd over the whole Member; and with a fit double-headed Roller, make good Bandage: or if in the Knee, or Leg, fit on a laced Knee-Piece, or Stocking, by which the Humour will be fent from the Part affected, to those adjacent, and so the more readily carried off by Internals.

Q. What Parts of the Body does this Tumor ge-

nerally posses?

A. The Hands and Legs, because they are the farthest from the Heart, which is the Well-spring of Life, and also because they are framed of cold Parts.

Q. What Tumors are referred to an Oedema?

A. Six: viz. Three which are contained in a Cystis, and three which are without; that is to fay, (1.) Atheroma. (2.) Steatoma. And (3.) Meliceris. These three are contained in a Cystis; and the other three, which are not so contained,

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are these, (1.) Psydracium, (2.) Ficus, and (3.) Talpa.

Q. How will you know an Atheroma?

A. It has a Substance like Curds or Rice Milk; it proceeds from thick and gross Phlegm.

Q. How will you know a Steatoma?

A. It is not so big as Atheroma, and contains a Matter like unto Grease, or a Sweetbread-like Sub-stance.

Q. How will you discern a Meliceris?

A. It contains a Matter resembling Honey, and is bred of thin Phlegm mingled with some Choler.

Q. How do you distinguish a Psydracium?.

A. It is a pointed white Puftle, containing a waterish Humour.

Q. What is a Ficus?

A. It is called Ficus, because its Roots resemble that of a Fig; and its inner Substance is like that of a Fig also.

Q. What is a Talpa?

A. It is so called, because as Moles heave up the Ground, so this Tumor lifts the Skin from the Pericranium, and is larger than a Ficus.

Q. Is no other Tumor to be added to these?

A. Modern Authors add one they call Nata, which is large, and is so called because it resembles the Buttocks, called Nates; is without Pain, consists of pituitous Flesh, seated most commonly in the Neck, and is only cured by Excision.

Q. What is Ganglium, and Lupia, Tumors so

called?

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A. They are round Tumors of the nervous Parts without Pain, only Ganglium is hard, Lupia fost. Lupia may be moved every way, but Ganglium only towards the Sides, Gc.

CHAP. VIL

Of a Scirrhus.

A. It is a Tumor caused of Melancholy, or tough cold Phlegm, hard, fixt, and without Pain: If it wholly comes of Melancholy, it is of a Lead Colour; but if of Phlegm, it does not change the Colour of the Skin.

Q. What is Melancholy?

A. The fourth Humour in the Mass of Blood; yet natural, cold and dry.

Q. Why is this Tumor hard?

A. Hardness is the Offspring of Cold, Dryness, too great Repletion, or a Combination of all these together.

Q. Why is it without Pain?

A. (1.) Because the animal Spirits cannot pass through an Humour so glutinous, as that which causeth a Scirrhus: Or, (2.) because it is benumbed with the Coldness of the Humour.

Q. Wherein does it differ from other Tumors?

A. Herein it differs: A Phlegmon is attended with Pain; an Eryfipelas is not hard; an Oedema yields to the Touch, and pits. Waterift Tumors have a thin clear Matter: And from a Cancer particularly, it differs in these Respects; a Cancer is ever painful, this not at all; a Cancer is hot, this cold; a Cancer seizes the loose and flaggy Parts, this the hard ones, as Joints, Tendons, and Ligaments; in a Cancer the Veins appear full and black, here not so.

Q. What are the Prognosticks in a Scirrhus?

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A, An exquifite Scirrbus is incurable; and one less exquisite, though it is seldom mortal, hardly admits any Cure, or with much Difficulty: A Scirrbus from Melancholy only, is warily to be managed, for fear it should degenerate into a Camer; but with that which is caused of Phlegm, you may be more bold.

Q. Why is an exquisite Scirrhus incurable?

A. Because the Part is deprived of the Influence of the animal Spirits, and the Faculty it self is so strangled, that it cannot help the natural Heat to concur with Means which may be used, Or.

Q. What are the Indications of Cure?

A. Diet, internal Medicines, and local Applications.

Q. Is Phlebotomy profitable in a Scirrhus?

A. If the Veins be full, the Blood black, and Age and Strength permit, it is by all means to be performed, because the Quantity being lessened, the natural Heat will with more ease rule the rest.

Q. What is the Dietetick Cure?

A. All their Meat must be of an easy Digestion, moist, and of a thin Juice, as Chickens, Pullets, Lamb, Veal, Rabbets, Sallads, Spinage, Oc. Their Drink, small Wine, Cyder, or reasonable strong Beer. All salt Meats dried in the Smoak, Venison, coarse Bread, Oc. are hurtful.

Q. What are your internal Medicines?

A. Such as purge Melancholy and Phlegm; as Confectio Hamech. Pil. de Lap. Lazuli, Extr. Helleb. Nigr. given in Decoctions of Sena, Polypody, &c. these for Melancholy; and to purge Phlegm, give Pil. de Agaric. & Hermodact. Diaturbith. &c. But it is thought, that nothing is better than constantly taking a Diet-Drink of Sarsaparilla, China, Guaiacum,

Guaiacum, &c. instead of common Drink, and sweat every Morning well upon it.

Q. What are your external Applications?

A. Not repelling; because the Humour is thick and hard, and so unsit for Motion: but they ought to be discussing and emollient; and not Emollients alone, for thereby a Scirrbus is exasperated, and so will be apt to turn cancerous; Unguent. Dialehea, Ol. Lilior. Adeps Human. Anseris, Empl. Diach. cum Gum. è mucilaginibus, Gum. Bdellii, Ammoniaci, Galbani, &c. And before you apply any of these, soment the Part with Decost. Malv. Flor. Cham. Melilot. Sambuci, Sem. Lini, Fænugrec. Rad. Althea, &c. cum aceto, & adde Sp. Vini q. s. And in dry Bodies, and where the Scirrbus is more confirmed, and fixed amongst the Tendons, the Fume of Vinegar, sprinkled upon a hot Stone, often repeated, has its use herein.

Q. Having briefly received Satisfaction, as to a Phlegmon, Eryfipelas, Oedema, and Scirrhus, which take their Original of the four Humours in the Mass of Blood, (viz.) Blood, Choler, Phlegm, and Melancholy: Now give me your Thoughts of Aqueous

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C H A P. VIII. Of Aqueous Tumors.

A. A Queous Tumors are produced of the Superfluity of the Serum of the Blood, after it has performed its Office; which moving the expulsive Faculty, part of it is sent to the Skin, which causes these Tumors.

Q. What is this Serum?

A. It is a Salt Aqueous Humidity contained in the Blood; which cannot be discerned, till the Blood, growing cold, this thin part is separated from the thicker by Concretion.

Q. What Quantity of this Serum is there in the

Blood?

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A. In a healthful Person the Quantity is but small, and no more than is fit to make thin the Blood, that it may with more ease pass to all Parts of the Body to afford them Nourishment; and this Serum has the same Matter with Urine and Sweat.

Q. What is Urine?

A. It is nothing more nor less than the Super-fluity of this Serum mixed with the Aqueous Humidity of Meat and Drink, separated from the Sanguineous Mass by the attractive Faculty of the emulgent Veins and Kidneys, and by the Ureters sent to the Bladder.

Q. How is the Superfluity of Serum fent to the Habit

of the Body ?

A. Partly because the Weakness of the Kidneys will not suffer them sufficiently to draw it; partly because the Liver is too cold; and partly from Immoderation in drinking of Water, Wine, Ale.

Ale, Cyder, &c. See my mechanical Esays on the animal Oeconomy, &c.

Q. What are the Signs of an Aqueous Tumor?

A. It is sometimes less, sometimes bigger; yields when it is hard pressed, is not painful, does not pit, and is attended with an itching in the Part, by reason of the Saltness contained in the Humour. If they lie externally, they appear resplendent; and if they be deeper, and are shaded by the Hand and a Candle in a dark Room, a faint Transparency may be perceived: Those that are contained in a Cystis, if the Tumor be large, an Undulation may be perceived, if they are shook, Oc.

Q. How will you perform the Curative Part?

A. By convenient Diet, internal Medicines, external Applications, and manual Operation.

Q. What is your Dietetick Method?

A. Eat Roast-Meat rather than boil'd; shun all Immoderation in Drink; Flesh is better than Fish; and that is best to be of Kid, Veal, Rabbets, Land-Fowl, Biskets, and Bread well-baked, &c. shunning all Spoon-Meat whatsoever.

Q. What internal Medicines do you use?

A. They are of three forts, (viz.) fuch as purge by Stool, by Urine, or by Sweat and infenfible Perspiration.

Q. What are your Catharticks, or fuch as purge

by Stool?

A. Elaterium, Gutta Gamba, Pil. de Euphorbio, Cochia, Rad. Jalap. Mechoachan. Syr. è Spin. Cerv. Rad. Esula Maj. &c.

Q. What are your Diuretical Means, or such as

provoke Urine?

A. Syr. Althea, è quinque Radicibus, &c. Sal Prunel. Rhenish Wine strained through Broom-Ashes, Sal Genista, Spir. Juniperi, Spir. Nitr. Dulc. &c.

Q. What are your Sudorific or sweating Medicines?

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kep curi Jud A. Decoet. Guaiaci, Sarsaparil. Sassafr. Agrimon. Beton. Sem. Fæniculi, Coriandr. Anisi, &c. Give it often, as the Patient can bear Sweating; and give it warm.

Q. What are your external Applications?

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A. They ought to be such as discuss and rarify the Skin, that a Breathing may be given to the impacted Humour; as Fol. Malv. Farin. Lupiner. Ol. Anethi, Cham. Vin. Alb. q. S. Of which make Cataplasms. Also Mustard, and Nettle-Seeds, Brine, Ammoniacum, Bdellium, Ol. Olivar. Vet. Cera, &c. Of which, according to Judgment, make Cerats. But, before the Application of this or any other Medicines, the Part is to be well fomented with a strong Lixivium made of Broom-Ashes, Absinth. Centaur. Calamint, Bacc. Lauri, Sem. Cymini, Fol. Scordii, Flor. Cham. Melilot, &c. and then embrocate the Part with this, R. Sal. Nitri 3x. Piperis Alb. 3vj. Euphorb. 3ij. Ol. Laurin. 3vj. misce. And if after all, the Cure succeeds not, an Apertion must be made, to discharge the Water: But in an Ascites, which is commonly the Product of some Chronical Diftemper, which took its original from Obstructions of the Viscera, Tapping sometimes has, but often has no good Effect: And (if the Viscera are corrupted) it commonly hastens the Patient's Death; especially if too much Water is let out at once.

Q. What are the Differences of Aqueous Tumors?

A. Those in the Head are called Hydrocephalus; if in the Belly, Ascites; and if in the Cod, or Scrotum, Hydrocele, or Hernia Aquosa.

Q. How do you perform the manual Operation?

A. It is done either by Incision or Caustick, which must be in a depending Part, and must be kept open by a Pipe of Lead or Silver; and lastly, cured as other Tumors, according to the Artist's Judgment.

C H A P.

C H A P. IX. Of the King's Evil.

Q. What is a Scrophulous Tumor?

A. It is an hard Tumor of the Glands, inclosed in a Cystis of its own, bred of thick Phlegm.

Q. How is it called?

A. In Latin, Scrophula, and Struma; in English, The King's Evil.

Q. Why is it call'd, The King's Evil?

A. Because the Cure of it has been reported by People of a strong Faith, to be a particular Gift of GOD to the Kings and Queens of England, that are lineally descended from the Blood-Royal, who cure it by their Touch; tho' where that cannot be had, it comes under Chirurgical Considerations, which is undoubtedly the most certain way of Cure. For as to the Royal Touch, it seems to me to be much of the nature of that of a Seventh Son, and both depend merely upon Faith, or Fancy; and that's the Reason (I presume) that Children and Folks of small Faith, often miss'd of a Cure in former Days.

Q. What are its Differences?

A. Sometimes it is lodged in many Knots, sometimes in few; sometimes large, sometimes small; sometimes mild, sometimes malignant; one is moveable, another not; some have Veins, Arteries and Nerves, others none, Oc.

Q. How do you distinguish it?

A. I distinguish it from a Gland, because that is soft, and without Pain; is single, and slips when pressed, and returns again, and is generally suraneous:

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cutaneous: But the Evil (on the contrary) if touched, feels hard and is painful, and generally confifts of many Knots, and lies deep. It is known from a Ganglium, for that is only in a nervous Part. Nodes are separable from the subjacent Parts, and breed in any; but the Evil sticks fast to the Flesh, and is generally in a glandulous Part.

Q. What are the Prognosticks?

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A. (1.) Every Scrophula is difficult of Cure, because it is hard, it is contained in a Cystis of its own; and comes from a gross Humour. (2.) The painful is more difficult than that without Pain. (3.) The fixed worse than the moveable. (4.) It is more difficult in the forepart of the Neck than any where else. (5.) It sometimes turns Scirrhous or Cancerous. (6.) It generally seizes Children, but seldom on grown Youths or Men; wherefore when it does so, it is the more difficult of Cure. See Mr. Wiseman's Surgery, who has treated largely and learnedly about it.

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CHAP. X.

Of Ulcers in general.

A. It is a Solution of Unity with loss of Substance in any Part, either proceeding from an inward Cause eroding the Part, or from some external Force making a Wound, Oc. which in process of Time degenerates into an Ulcer.

Q. How is it called?

A. In Latin Ulcus, in Greek en &, and is the day, because it disjoineth the Part it possesseth; and

fo, in general, this Term comprehends every Solution of Continuity.

Q. What are the Differences of Ulcers?

A. Ulcers are of two forts, viz. Simple and Compound; now I call that a Simple Ulcer, which hath neither a Disease, Cause, nor Symptom joined to it, or complicate, besides the Solution of Unity; but in a Compound Ulcer, either some of these, or all, are found.

Q. What are your Prognosticks in the Cure of Ul-

cers?

A. In a Person of a good Complexion it is easy of Cure, and in a bad one the contrary; in Moist and Hydropical Bodies, in aged Persons, in Children, and in Women with Child, they are difficult of Cure: Those in the Spondils of the Back and great Joints, are most commonly mortal; those of a round Figure are more difficult of Cure than those of any other form: in Hestick and Hydropick Persons they are hardly curable; if the Bone be foul, and the Ulcer livid, it is a bad Sign. Q. How will you know when a Bone is foul?

A. (1.) If the Ulcer has been of long standing.
(2.) If it has been cicatriz'd and breaks out again.
(3.) If it yields more and thin Matter than the bigness of it requires. (4.) If the Brims of the Ulcer will not contract. (5.) If on the sight of the Bone it appears black, discoloured or rugged: And, (6.) If it does not yield to rational Appli-

cations.

Q. How do you discern the Times of an Ulcer?

A. In the beginning the Matter is waterish and thin; in the Increase, it flows more sparingly but thicker; in the State there is no Ichorous Matter but Pus, yet it looks somewhat thinner; and in the Declination, Laudable Pus appears.

Q. What is Laudable Pus?

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A. It is white, uniform, and without ill fmell.

Q. How is the Cure of an Ulcer performed?

A. (1.) By removing the Cause. (2.) By artificial Dreffings.

Q. What are the Causes?

A. Generally a Cacochymia, and the Distemperature of the Part: The first has been spoke to before, in the Doctrine of Tumors; and the Distemperature of the Part is to be removed by things contrary to it; and in order to it, a convenient Diet must be prescribed.

Q. How must it be dreft, according to Art?

A. In the beginning, Digestives are to be applied.

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A. (1.) Because the Matter which has left the Vessels, and has infinuated itself within the Porofities, corrupts; wherefore it must be concocted, that it may become Laudable Matter. (2.) Flesh will not generate, nor can sarcotical Medicines take place, unless the Matter be concocted.

Q. May Digestives be applied to all Ulcers?

A. No: (1.) Not to Putrid Ulcers, for Digestives being hot and moist, would here cause the greater Putresaction. (2.) Not to Rheumatick Ulcers, for Digestives relax the Part, and make it more subject to receive the Matter that flows.

Q. What is to be done next ?

A. Repelling Medicines are to be applied about the Ulcer, to repel the Matter that flows. (1.) To prevent Fluxion from the Parts adajcent. (2.) To flrengthen them, that they may resist Fluxion. (3.) To further the Desiccation of the Ulcer.

Q. What are the Digestives ?

A. Pic. Refin. Cera, Unquent. Basilic. Aureum, &c. cum Mercur. Pracipit. Rubr. Far. Tritic. Hordei, &c.

Q. What are your Repelling Medicines?

D a A. Sue.

A. Succ. Cydonior. Plantag. Acet. Vin. Rub. Fol. Ros. Rub. Ol. Myrtil. Mastic. Unguent. Alb. Ter. Sigillat. Far. Fabar. &c. Of Emplaisters, Empl. de Minio, de Sapone, Diapalma, Diacalciteos, &c. with proper Bandage.

Q. What is next to be done?

A. After good Digestion, I mundify or cleanse; for if we apply incarnative Medicines before the Ulcer is well digested and cleansed, spongy Flesh will grow in spite of all Endeavours; and so by consequence we cannot cicatrize.

Q How will you know when an Ulcer is well di-

gested?

A. If the Quittor is pretty laudable, and if the Edges of the Ulcer is well coloured and soft, &c.

Q. What are your mundifying Medicines?

A. Rad. Aristol. Rot. & Long. Virid. Æris, Merc. Præcipit. Rub. Mel. Succ. Apii, Mundificativ. Paracels. & ex Apio, Unguent. Apostolorum, Unguent. Basilic. cum Mercur. Præcipit. Rub. &c.

Q. How will you know when an Ulcer is Sufficiently

mundified.

A. When I fee it appears red, fensible, clean, and neither too dry nor too moist.

Q. What more is to be done?

A. I am next to Incarn, or fill with Flesh.

Q. What Medicines will you make use of?

A. Mastich. Myrrh. Sarcocol. Gum Elemi, Terel. Venet. Thus, Oliban. Liniment. Arcai, Unguent. Aureum, &c.

Q What Rule is there in compounding of them?

A. They must not be either too soft nor too hard; for if they be too hard, the weak Par cannot well have the Benefit of them; and if they be too soft, the Heat of the Part will cause them to spread, and breed a Fungus.

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Q. But suppose a Fungus should arise, how will you abate it?

A. Then I use either strong Desiccatives, Cathe-

reticks, or corrupting Medicines.

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Q. How do you time the Application of these?

A. If the Fungus be fost, and but beginning, I use strong Desiccatives only; such as, Ter. Sigillat. Lemnia, Bol. Aloes, Croc. Martis, Minium, Cerussa, Litharg. Auri, Alum. Vit. Rom. &c.

Q. But suppose you find these not powerful enough?

A. Then I vie Cathereticks; these burn, but gently, being hot and dry in the fourth Degree, and only superficially dry, and corrode the Flesh; (viz.) Alum. Ust. Virid. Æris, Merc. Præcipit. Rub. Turb. Miner. Unguent. Apostolor. Ægyptiac. &c.

Q. If the Fungus be so hard and compact, that it

refists these Medicines, what must then be done?

A. In this Case some use Escharoticks, such as Lapis Infernalis, and the Lunar Caustick; but these are dangerous Medicines, and ought to be managed by a skilful Hand; also Merc. Sublimat. mix'd with calcin'd Roman Vitriol, and Ter. Sigillat. or Turb. Min. mingled with the same; Ol. Vit. Ol. Sulph. Aq. Fortis, &c. and the actual Cautery; all which are attended with Pain and Difficulty, and ought never to be used but in urgent Necessity and with great Caution; but rather use Fallopius's Catheretical Lint, (viz.) R. Aq Plantag. Ros. Solani, ana Siv. Opii 9j. Medul. Panis 3ij. Merc. Sublimat. Div. Super Porphyr. trit. omnia hæc commixta bulliant ad Consumpt. Med. dein colent per pannum Crassinsculum. Fila excerpta bulliant aliquandiu in hoc liquore, postea eximantur, sucentur, ac serv. ad usum.

Q. We will now suppose the Fungus removed, but

what will you do next?

A. I must next endeavour to cicatrize, or skin the Ulcer, if it be filled up nearly smooth.

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Q. How is this performed?

A. By Epuloticks; as Tex. Sigillat. Æs ustum, Minium, Ceruss. Empl. Diapalm. Unquent. Desic. Rub. Empl. de Minio—Unquent. Alb. Camph. Aq. Calcis, Unquent. Diapomph. Vitr. Rom. and Dr. Turner's Ceratum ex lapide Calaminar. &c. the Recipe of which I here communicate, (viz.) Butyr. Maii sine sale, & Cera slav. puriss. ana 3xiv. Ol. Olivar. opt. 4bj. Lap. Calaminar. Pulv. 3x. 3ij. Ms. Fiat Cerat. S. A.

Q. At what Time are Epuloticks to be applied?

A. Before the Flesh is even with the Skin, or whilst there is some Cavity; for if this be not minded, the Cicatrize is apt to be higher than it ought, and so would cause a Deformity.

Q. You have given me the Signs of a corrupt or foul Bone; pray tell me how you will exfoliate or scale it, in order to cure the Ulcer, and then we will

proceed to particular Ulcers?

A. First, the Bone is to be laid bare; and, 2dly, the scaling, or exsoliating of the Bone, is to be effected by proper Means.

Q. How is the Bone to be laid bare?

A. Three Ways; (1.) By Incision. (2.) By the Potential Cautery; as Lapis Infernalis, the Lunar Caustick, &c. Or, (3.) By Dilatation, inlarging the Ulcer, tho' the Bone appears but a little: And this is done by Spunge dipt in some Melilot-Plaister, and press'd hard till it is cold, and then cut out into Tents; also Tents made of Gentian, or Pith of Elder.

Q. Are either of these to be used to all Parts indifferently?

A. No: The Potential Cautery is not to be used, where many Nerves or Tendons are, lest they

they cause (by their great Pain) symptomatical Fevers and Convulsions; but they are rather to be applied where there is a Caries of the Ulna and Tibia. Dilatation is to be used where Incision or the Potential Cautery may not; (viz.) On the back of the Hand, Instep, and Metatarsus; nor may Incision be used at all where Bones lie deep, and have Veins, Tendons, and Arteries above them.

Q. The Bone being bare, how is it to be exfoliated?

A. By Medicines, Instruments, or actual Cau-

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Q. What are your desquamatory Medicines?

A. They ought to be very drying; and if the Caries be only superficial, those of the first fort may serve; as, Pulv. Myrrh. Rad. Aristol. Rot. &c. And if the Cariosity be something deep, a second fort must be used; as, Rad. Pucedan. Euphorb. Aloes, &c. And if the Caries be very deep, we must use Tinet. Euphorb. Ol. Caryoph. Ol. Sulph. Vit. Rom. Calcinat. &c.

Q. If it be done by Medicines, how long Time will

it require?

A. If they be rightly applied, about forty Days will do the Work.

Q. But suppose the Caries will not yield to Medi-

cines, what then?

A. Then we must have recourse to Instruments; the principal of which is, Mallet, Chissel, and Raspatory; the Caries is to be taken off with the two sirst, and the Bone to be smoothed by the last: And then some of the former desquamatory Medicines must be applied; but if both Tables of the Cranium be soul, we must use the Trepan: The Use of which shall be treated of in another Place.

Q. How is the Bone to be scaled by actual Cautery?

A. The Cautery, is to be red-hot; and, if the
Bone lie deep, it is to be conveyed to it through a

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Pipe

Pipe of Iron; and, if it be superficial, the Parts are to be covered by double Implaister, to prevent their being burnt.

Q. May it be applied to any Part?

A. No: Not to the Scull, nor Vertebræ of the Back; because of hurting the Brain in the one, and the Spinalis Medulla in the other.

Q. How is the Bone to be dress'd after Cauterizing?

A. For some sew Dressings, to hinder Inslammation, use Aq. Rosar. and Alb. Ovi; and then apply to it exsoliating Medicines. Some use for the first three Days, Ol. Rosar. cum Alb. Ovi; and for three other Days, Ol. Rosar. & Vitel. Ovi; and afterwards, Butyr. cum Mel. Rosar. and over that some Detersive: And continue this Method till the Bone scales; and afterwards Incarn and Consolidate with Rad. Aristol. Iris, Myrrh. and such like.

Q. What do Surgeons mean by Sordes, Ichor, and

Sanies, in Ulcers?

A. The Excrement which they call Sordes, is thick and glutinous; that which they call Ichor, is thin and waterish, like to Water wherein Flesh has been boiled, having received no Alteration, but has flowed pure, as it is in the Veins and Flesh. Sanies, or Virus, is thin also, but has received some Alteration, by the Temperature of the Part.



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Of a Simple, Plain, and Hollow Ulcer. 41

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CHAP. XI.

Of a Simple, Plain, and Hollow Ulcer.

Q. In the last Chapter, you told me the Difference between a simple and compound Ulcer; pray tell me now, how many Kinds of simple Ulcers there are?

A. Two: The one is plain, and equal to the natural Skin, and wherein only the Cutis and Cuticula are lost; the second is hollow, wherein besides the Cutis and Cuticula, part of the Flesh is gone also.

Q. How will you effect the Cure?

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A. One Method serves for both. If the Blood be not pure, it is to be altered; as, if it be too thin, thick, hot, or cold; if it offends either in Quantity or Quality, the Patient is to be managed accordingly; the Non-naturals are to be discreetly orderly, and the Patient kept in a due Temper, &c.

Q. What are the Non-naturals?

A. (1.) Excess in Eating or Abstinence. (2.) Too much Motion or Rest. (3.) Too much Sleep or Watching. (4.) Too much Evacuation or Retention. (5.) Too much Perturbation of Mind. (6.) The Air too hot, cold, dry or moist.

Q. What are the Prognosticks in simple Ulcers?

A. The Cure becomes difficult or easy, according to the Nature of the Part ulcerated, and the Diet of the Patient. They are more easily cured in a fleshy Part, than in a Joint or Nervous Part; so more easy in a temperate Person than in one given to Debauchery.

Q. What

42 Of Compound, but Mild, Ulcers.

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Q. What is your Method of Cure?

A. Digest with Terebinth. lot. in Aq. Font. & adde Vitell. Ovi, or any Digestive in use, according to Occasion: Or you may both digest, deterge, and incarn, by Unquent. Bafilic. alone, or mixed with Liniment. Arcai, & Merc. Pracipit. Rub. in fit Quantities; and over this, Emplastr. de Minio, Diapalma or Diacalciteos; and, if need be, a Cloth wrung out of red Wine, over all. When it is well digested, mundify, incarn, and cicatrize, as directed in the former Chapter. If you are Master of your Business, and know exactly when to digeft, when to deterge, when to incarn, and when to cicatrize, very great Performances may be done, with only Basilicon, Precipitate, and dry Lint, without any other Applications whatsoever; but the whole Art lies in timing things, which you must learn by Observation.

CHAP. XII.

Of Compound, but Mild Ulcers, in general.

Q. Y OU have already told me that a compound Ulcer has a Disease, or a Cause, or Symptom annexed to it; pray tell me now, what you mean by

A. Many Diseases in Man's Body keep Ulcers from healing; some corrupt the Humours, as the Leprosy and French-Pox; some hinder laudable Blood to be sent in sufficient Quantity, as the Phthissand Hettick Fever; and some send too much waterish Humours with the Blood, as the Dropsy, &c. All which hinder the Union of the ulcerated Part.

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Of Compound, but Mild, Ulcers. 43

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ed roA. If the Humour offend in Quantity, it is to be abated by *Phlebotomy*, Catharticks, and flender Diet; if it offend both in Quantity and Quality, we are to use both purging and altering Medicines. So far of its Process, accompanied with a Disease; we next come to discourse of it, as it has a Cause annexed to it, and that is the Distemperature of the Part.

Q. What is that?

A. The fingle Distemperatures are in number four; (viz.) too dry, too moist, too hot, and too cold.

Q. How do you know the dry Distemperature?

A. The Colour of the *Ulcer* is ill to look to, if you touch it, it feems hard and dry, and little or no Matter flows from it.

Q. How is it to be removed?

A. If the Body be plethorick or cacochymick, in the first place bleed and purge; then foment with warm Water, and apply Water and Oil mixed, a Cloth or Pledget being wet in it, and laid over the Ulcer.

Q. How long will you use this Method?

A. Till the Part is a little tumified, foft and moift, and of a ruddy Colour.

Q. How do you know a moist Distemperature?

A. The Flesh will be agt to be moist, a Fungus will be apt to grow, and plenty of Excrements will flow from the Ulcer.

Q. How is it to be removed?

A. Strong Sarcoticks, or Deficcatives mixed with Digestives or Incarnatives are to be used; (viz.) Plumb. ust. Lap. Calaminar. Rad. Irid. Gum Oliban. Mastich, Æs ustum, &c.

Q. How is a hot Distemperature known?

44 Of Compound, but Mild, Ulcers.

A. The ulcerated Part will be fomewhat tumified, hard and red, and the Party's Complaint, and your own Touch, will inform you.

Q. How is this to be removed?

A, Dissolve 3ij. of Alum Roch. in Aq. Plantag. thj. or dissolve Vit. Alb. or Vit. Rom. in Aq. Plantag. or Aq. Sperm. Ranar. &c.

Q. How do you know a cold Distemperature?

A. By its Colour, Hardness, Sense of the Patient, and your own Feeling.

Q. How is this to be remedied?

A. (1.) Foment the Part with a Fomentation made ex Cerevis. Fort. wherein has been boiled Calamint. Centaur. Absynth. Chamamel. Tanaset. Scord. Ruta, &c. Then dress the Ulcer with a Digestive and an Emplaister ex Paracels. Diach. cum Gum de Mucilaginib. &c. over all.

Q. What do you mean by a Symptom annexed to

an Ulcer?

A. Chiefly Pain; which by Attraction brings Humidity to the Part, and so obstructs the Cure; it also inflames the Part, causeth Watching, Fainting, and sometimes Convulsions.

Q. How is Pain to be removed?

A. Two ways: (1.) By taking away its Cause, which is Affluxion of Humours. (2.) By Application of Anodyne Medicines; both which have been spoken to, in the Doctrine of Tumors, Page 2, 6, &c. Out of which frame Cataplasms or other Dressings at your Discretion.



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Of a Sinuons Ulcer, without Callofity. 45

CHAP. XIII.

Of a Sinuous Ulcer, without any Callosity.

A. Surgeons call that Ulcus Sinuosum which is hollow like a Coney-burrow; they are sometimes superficial, sometimes deep, sometimes strait, and sometimes oblique, &c. Some of which have neither Hardness nor Callosity, which we term Ulcera Cavernosa; and some have both Hardness and Callosity, and these are called Fistulæ.

Q. How is Ulcera Cavernofa, without Callofity,

cured?

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A. (1.) By Injection of fit Medicines without opening. (2.) By opening, and dreffing it artificially.

Q. Suppose you was to do it without opening, how

would you proceed?

A. First the Cavity is to be fill'd with Flesh, and the disjoined Parts are to be agglutinated.

Q. Of what Nature ought the Applications to be?

A. The Incarnatives must dry without Erosion, and the Glutinatives must have both Astriction and Dryness.

Q. What Medicines are they?

A. An Injection of Aq. Hord. Mel. Rosar. Myrrh. Sarcocol. Bacc. Myrr. Sumach. Rad. Tormentil. Spir. Vin. &c. fitted in due Proportions, and strongly boiled, and injected warm.

Q. How will you know when 'tis Sufficiently mundi-

fied?

A. When I find the Quittor neither stinking, reddish, pale, black, nor waterish.

Q. Well;

46 Of a Sinuous Ulcer, without Callofity.

Q. Well; but if it be not enough mundified, how

will you proceed?

A. Then I will form Injections ex Centaur. Abfynth. Marub. Alb. Card. Ben. &c. decocted in Wine, with an Addition of Mel. Ægyptiac. & Mel. Rofar. &c.

Q. How is it to be dressed artificially?

A. (1.) Lay upon it (the whole length of the Cavity) Empl. ad Herniam, folded four or fix times double when foread, to prefs the Parts together when rolled, in order to Union, and then inject your Medicine; then put in a short leaden Pipe, having the Brims turned back, to keep it from slipping in; then shur up the Orifice and the Tent with a Bit of the aforesaid Emplaister, Inipped in the middle, to let out the Quittor; above that, place a Piece of Spunge, moistened with the Medicine with which you dress the Ulcer; and over that place a Pledget of Tow. On the Cavity of the Ulcer lay a thick Bolster; and over all, a foft Linen-Cloth double; then begin your Rolling at the Bottom, where it must be something strait, (but not fo as to cause Pam) to press out the Quittor, and cause Agglutination.

Q. How often is it to be dreffed?

A. If much Matter does not flow, dress it every third Day.

Q. How will you know if it is about to agglutinate?

A. If I find the Matter abate, is laudable in Colour and Confishence, and have no ill Smell, and if the Cavity be without Pain and Tumor.

Q. But why must it be dress'd so seldom?

A. Because often dressing gives way to cold Air, which hinders Union.

Q. But what must be done if the Cavity be lower than the Orifice?

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Of a Sinuous Ulcer, without Callofity. 47

A. Way must be made for the Quitter two Ways: (1.) Either by opening the lower end of the Sinus only: Or, (2.) By laying open the whole Cavity; for if one of these be not done, no Cure can be expected.

Q. In what Cavities will you lay open the lower-end

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A. (1.) If the Sinus be of an extravagant Bigness. (2.) Or if it be in a great Joint: Or, if there be Nerves, Tendons, great Veins, or Arteries in the way, the Reasons of which are evident.

Q. How are these ways to be performed?

A. By Caustick, or Incision.

Q. In what Cases is a Caustick most proper?

A. (1.) If the Patient be timorous. (2.) If he be fick and weak. (3.) If it be in a Part that may cause Deformity. (4.) If there is fear of a Flux of Blood.

Q. What do you observe in applying your Causticks?

A. If the Situation of the Part or Member wherein the Sinus is, be in the upper side, then Lapis Infernalis is best; but if on the lower side, then the common Caustick is best.

Q. How will you open it by Incision?

A. Either with an Incision-Knife and Directory, or with the Probe-Scissars, which is best; then fill it with Dorsels, to keep the Lips asunder, and arm them with Rectitives, as in other Cases.

Q. But what if you find, that notwithstanding all

this, the Ulcer does not heal as you expect?

A. Then I must give Drinks made of Sarsaparilla, Guaiacum, China, Agrimon. Hyperic. Virg. Aurea, Sigil. Solomon. Rad. Symphit. Torment. Bistort. Marub. &c. Which the Patient must drink of, for three Weeks or a Month, and keep to a spare spare Diet, and such as is of easy Digestion: Or let the Patient take \$\frac{3}{2}\$, of Tinctura Gum Guaiaci, in Syrup of Damask Rose-Water, and then mixed with a Glass of Wine in the Morning sasting, half an Hour before Dinner, and last at Night, going to Bed. The Prescription is this; \$\mathbb{R}\$ Spirit. Vin. Rect. thij. Pulv. Gum Guaiaci \(\frac{3}{2} \)iv. Dissolv. in Balneo, till the Tincture becomes reddish, &c.

CHAP. XIV.

Of the palliative Cure of Sinuous Ulcers or Fistulas with Callosity in general.

Q. W Hat is a Fiftula?

A. It is a Sinuous Ulcer, narrow, and long, with Callosity, and virulent stinking Matter, with little Pain.

Q. How will you know to what Part the Fiftula

paffeth ?

A. If it passeth to the sleshy Parts, the Matter appears white, smooth and plentiful, and the Part where your Probe stops, seems soft. If it pass to a Nerve, a fat and oily Matter comes forth; the Motion which is caused by that Nerve is impaired, and the Fistula is more than ordinary painful, and the Bottom being touched by your Probe, causeth a Pain and Numbness. If it pass to the Veins and Arteries, yet so as their Coats be not eroded, then the Matter looks like Lees of red Wine; if it has corroded a Vein, Blood issues out thick, of a dark Colour, without Impetuosity; but if an Artery be wounded, the Blood is more red, bright, and comes forth with leaping and Violence, (or per Salum, as Surgeons call it;) if

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Q. A. Meat thas passed to the Bone, and that be corrupt, the Matter is yellow, of an ill Scent, and the Bone is to be felt rough, uneven, Oc.

Q. What Presages can you make concerning the Cure

of Fistula's?

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A. No Fistula is of easy Cure: (1.) Because of the Unfitness of the Part to receive proper Medicines. (2.) By reason of the Quality of the Medicines, which must be sharp and biting, and so cause Pain; from whence often come Fevers and Faintings, Oc. (3.) Those which are superficial are more easy of Cure than those which are deep. (4.) Those with many Sinuofities, require Incision. (5.) In those ending on Veins and Arteries, you are to encounter with Hemorrhages. (6.) In those on the Nerves and Tendons, with Pain and Numbness. (7.) Where the End is more depending than the Orifice, it is hard of Cure. (8.) In Fiftula's of the Back, if the Spine be carious, shun (9.) Fiftula's in the Joints are dangethe Cure. rous. (10.) Fistula's of a long standing, in a depending remote Part, by which Nature hath been used to discharge her self of Superfluities, if they are not painful, may rather be kept open than cured; for they hinder Diseases, and keep the Body in Health.

Q. What do you call a palliative Cure?

A. It is when a Sinusfity is inwardly dried for a time, and the Orifice feems shut up by a thin Skin, until new Moisture opens the Orifice again: Or, it is a Method whereby it is not suffered to grow worse, but by Art is made more easy, and the Life of the Patient is more comfortable than otherwise it would be.

Q. How is this done?

A. (1.) By a convenient Diet, feeding on fuch Meats as are of an easy Digestion and aftord good E luice.

Juice, the Body is to be purged by gentle Means, either by Dier-Drinks or purging Ale, made of Sarfa. Rad. Symphit. Polypod. Tormentil. Hermodact. Fol. Sen. Rad. Liquor. Sem. Anifi, Guniacum, Sanicul. Alchimil. &c. and drink of it three times a Day. (2.) By local Applications. Injections of Aq. Calcis, Syr. Rof. fice. Syr. Myrtillor. Litharg. Auri, &c. Or, ex Aq. Plantag. Vit. Rom. &c. injected warm. Lay to the Orifice a Pledget of Lint wet in the same, and above that a Diapalma Plaister, &c. and dress it only every other Day.

CHAP. XV.

Of the true Cure of Fistula's in general.

Q. D I what Means will you obtain the Cure of a Fiftula?

A. By Diet, Medicine, and manual Operation.

Q. What Diet do you advise?

A. The same as in the Cure of an Ulcer, but it ought to be taken very sparingly, and such as is of easy Digestion.

Q. What is your pharmaceutical, or medicinal Me-

thod ?

A. If a Cacochymia or Plethora have feized the Patient, let him take for some time some purging Ale, composed of Sarsaparilla, Guaiacum, Rad. Bistort. Symphit. Tormentil. Polypod. Fol. Alchimil. Sanicu. Fol. Sen. Sem. Anifi, Fanicul. Rad. Glycyrrh. &c. Also you may give Elect. Cariocoftin. è Succo Rosar. &c. After the use of these, you may give a consolidative Drink made of Rad. Ofmond. Regal. Centaur. Min. Agrimon. Vinca Pervinca, Virga Aurea, Symphit. Plantag. Equifet. &c. which is to be drank of,

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is are ent, di of, three or four times a day, a Pint at a time, which may be fweeten'd with Sugar, if the Patient will.

Q. What is your Chirurgical Method?

A. (1.) The Fistula is to be dilated. (2.) The Callus is to be removed. (3.) The Part is to be mundified. (4.) Union or Confolidation is to be procured. (5.) And then it is to be cicatrized.

Q. How is it to be dilated?

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A. Three feveral Ways: As, (1.) By Incision.
(2.) By Tents of Sponge, or Rad. Gentian. or Pith of Elder. And (3.) By the Fistula Tent.

Q. In what Cases will you make Incision?

A. If the Fistula is not deep, and in strong Bodies; but if it has many Sinuoficies, or a Callosity, the one is to be dilated, and the other removed, before Incision be made.

Q. How do you prepare your Sponge Tents?

A. Melt a sufficient Quantity of Melilot Plaister, and, whilst it is hot, put a Sponge into it, to suck it up; then take it and put it into a Press, and squeeze it hard, where let it remain till cold; then cut it out into Tents of what form you please.

Q. How is the Fiftula Tent prepar'd?

A. Take all the Down (without any of the Threads) of fine Lint, with which mix some of the White of an Egg beaten, and make Tents of what length your Fistula requires; make them upon a smooth Deal Board, and dry them, which will be stiff and pierce like a Probe, and which may be armed with fit Medicines, Oc.

Q. How must the Callosity be removed?

A. Either by Medicines or the actual Cautery.

Q. What are the Medicines?

A. (1.) Mild. (2.) More harsh. (3.) Such as are caustick. The first Sort are of an emolli-ent, digestive Quality, and to be used if the E 2 Callus

Callus be but small, in a fleshy Part, and a young Patient : As, Unquent. Dialthea, or Nicotiana mixed with Turbith. Mineral. or Pracipit. Rub. &c. Of the second fort, are Unguent. Apostolor. cum Turb. Min. vel Pracipit. Rub. Alum. uft. &c. Of the third fort, (viz.) Causticks, some are more gentle, as Auripigment. Calc. Viv. Sulph. Viv. &c. Of the second fort, are Virid. Æris, Vitr. Calcinat. Alum. uft. Turb. Min. Vitriol. Vomitiv. &c. mixed in fit Proportions, which are thus to be used: If the Fistula is dilated by Incision, sprinkle the Callus with some of these Powders: Or, if you use Tents, mix these Powders with some Populeon, and arm your Tents with it. But where there is great Callofity, and the Sinus small, and its Mouth fungous, I use the following Troches; Re Mic. Panis 3ij. vel q. S. pulv. Subtiliss. Merc. Sublimat. 3[s. Pulv. Plumb. Rub. O Rad. Gentiana ana 3ij. misce. Of these (being well incorporated) make Troches and Tents of divers Forms, and dry them; and either put one into the Fiftula, or upon its Mouth, or (if superficial) its whole Length, and in twelve Hours or less, (according as it is deep, or superficial) it will do its Work effectually and fafely, and with but little Pain: But take care it be not apply'd to Nerves or Arteries, for fear of Mischief.

Q. Very well; but what is to be done afterwards!

A. You must, twice a day, apply to the Part an Anodyne Cataplasm, and you must let the Tent remain in the Fistula, till it salls out of itself, (unless you have Reasons to the contrary) because they will (by so doing) bring the Callus out with them: And as to the actual Cautery, it is to be used as seldom as possible, and with great Caution, as the able Surgeon sales six

tion, as the able Surgeon sees fit.

Q. How will you mundify?

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A. By Unguent. Ægyptiac. mixed with Brandy or Wine, and injected warm once a day.

Q. How will you consolidate, or unite the Parts?

A. Decoct. Rad. Arift. Rot. Torment Bistort. Symphit. Centaur. Min. Virg. Aurea, Sigil. Solomon. Plantag. &c. very strongly; then, whilst warm, add to every Pint Mel. Angl. Biv. boil it again; strain and clarify it, which inject into the Fisula warm; and dress it as directed in the Cure of a Sinuous Ulcer.

Q. How is it to be cicatriz'd?

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A. That calls for no new Directions.

Q. How shall I know when it is near cured?

A. you may judge it to be so, when the Humour is thick, little, white, even, and the Place void of Pain and Tumor.

C H A P. XVI. Of a Fistula Lachrymalis.

Q. What is a Fiftula Lacrhymalis?

A. A Tumor called Anchilops, arising between the great Corner of the Eye and the Nose; if it apostemates, 'tis called Ægilops; which, being neglected, degenerates into a Fistula, even quite to the Bone, which is called Fistula Lachrymalis.

Q. What are the Signs of it?

A. (1.) It is known by its Orifice. (2.) By pressing with the Finger, the Matter issues out. (3.) By passing a small Probe to the end of its Sinus.

Q. What are the Prognosticks?

Of a Fistula Lachrymalis.

A. (1) All these Fistula's are of hard Cure. (2.) If the Quittor has made its way into the inner Paffage of the Nose, it is not to be cured. (3.) If it turns cancerous, we are only to use a palliative Cure, (4) If it continues long, it causes a Consumption of the Eve, or Blindness.

Q Why are they of hard Cure?

A. (1.) By reason of the Humidity of the Part. (2.) By reaton of its continual Motion. And, lastly, by reason of the Tenderness of the Place.

Q. By what Signs do you know it to be cancerous? A. By its livid, hard Brims, exquisite Pain, and

fætid virulent Matter.

Q. How will you cure a Fiftula Lachrymalis not

cancerous?

A. (1.) Dilate it with the Fiftula Tent, and then enlarge it with the Sponge Tent. (2.) You are to remove the Callefity with Merc. Pracipit. Rub. Turb. Min. lot. Unguent. Popul. &c. as before directed. (3.) You must mundify with Mel. Rosar. in Aq. Ruta warm, once a day. (4.) Confolidate with Ag. Plantag. cum Syr. è Ros. sicc. And, (5.) cicatrize with Empl. de Minio, Diapalma, cum Succis, &c.

Q. How will you do if the Bone be foul?

A. This is rectified two ways: (1.) By actual Cautery. (2.) By Incision.

Q. As how?

A. The actual Cautery carries Horror with it; yet most Authors like it as the best way. It must be made in the Form of an Olive-Stone, and the Parts are to be defended from the Fire with a hollow Plate, or else pass it thro' a Canula; and afterwards apply to it Pledgets dipped in Vin. Rub. and over all Diapalma, &c. till the Bone scales; then manage it as has been before directed.

Q. How is the Incision to be made?

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A. Having with a Probe found out the Cavity, both upwards and downwards, draw a Line with Ink, between the Glands of the Eye and the Trochlea, thro' which the small Tendon of the Musculus superior (vel major) passeth, and ends obliquely in the superior Part of the Cornea; then make Incision to the Bone, and dilate the Incision with your Nails; then thrust in a small Troch made of Turb. Min. Ter. Sigil. & Populeon, and about it lay a Pledget of Populeon, and over that Empl. Diapalm and with sit Boulstering and Bandage roll it up, first silling the Orbit of the Eye with soft Linen Boulsters dipped in Aq. Sperm. Ranar.

Q. How long is this Method to be used?

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A. Morning and Evening, until the Troch with the Callus fall out of its own accord, and then upon the Bone, so far as it is carious, I apply Pulv. Euphorb. then fill up the Cavity with a Piece of Sponge prepared with Melilot; over that a Pledget of Unguent. Popul and an Emplaister, and roll it up as before directed.

Q. How long are these Dressings to be used?

A. Until the Bone scales, which is about twenty Days after; then mundify, consolidate, and cicatrize, as before directed.

Q. But suppose that the whole Substance of the Bone of the Nose joining to the Fistula be foul, and so (after the Fistula be healed) it breaks out again?

A. Then enlarge the Sinussity till the corrupt Bone appears; then pierce the Bone of the Nose with some sit Instrument, that the Quittor may discharge thro' the Nostrils, and proceed to heal, as is directed in the palliative Cure.

Q. But if it prove cancerous, how will you proceed?

A. The best Medicine in this Case, is quoted by Dr. Read (the Surgeon, not the Quack) from Heurnius, and is this: B. Calaminar. Ter. ust. atque

56 Of a Fistula in the Breast.

in Acet. Vini extinct. Jj. Myrrh. Plumb. uft. & lot, ana Is. Croci gr. v. Opii gr. ij. Æris uft. Iv. Decott. Fænugrec. Jj. misce. Or instead of Decott. Fænugrec. mix it with fresh Axung. Porcin. in Aq. Ros. lot. &c.

CHAP. XVII.

Of a Fistula in the Breast.

Q. How does a Fiftula Thoracis happen?

A. By a penetrating Wound of the Breast, or from a Phlegmon possessing the Pleura and intercostal Muscles.

Q. What are the Signs of a Fistula Thoracis?

A. They are obvious to every Eye; it is there-

fore needless to give any.

Q. What are then the Differences of these Fistulas?

A. Those which follow a Wound have but one
Orifice, and that according to the Penetration of
the Wound; but that which ensues an Imposthume,
has commonly more Orifices than one, some of
which pass directly, and some curved.

Q. Give the Prognosticks?

A. All Fistula's of the Breast are of difficult Cure.

Q. Why fo?

A. (1.) Because the Breast is in continual Motion. (2.) In these Fistula's the Pleura is commonly ulcerate, which hardly admits of Cure. (3.) It often corrupts a Rib. (4.) The end of it is commonly lower than its Orifice, which prevents Expulsion of Quittor. (5.) Great Caution is to be used in the Application of Medicines, in this Case more than in other Parts. (6.) Because Fistula's here waste the Body, and produce Hellick Fevers: which

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which if once formed, are scarce ever curable, join'd with a Fistula of the Breast.

Q. How is it to be cured, if curable?

A. By a convenient Diet, pectoral Decoctions, and fit Applications.

Q. What is to be prescribed?

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A. Such as is ordered in the general Cure of Ulcers?

Q. Of what are your pectoral Decoctions compounded? A. Ex Flor. & Fol. Tustilag. Capil. Veneris. Marub. Alb. Symphit. Tormentil. Bistort. Flor. Violar. & Borag. Rad. Enula, Fol. Hysop. Flor. & Rad. Malvar. Rad. Petroselin. Fanicul. Liquorit. Scabious, Valerian, Sarsaparilla, China, Guaiacum, Uvar. Pass. Fic. pinguid. &c. Of these, Drinks are to be made, and drank in large Quantities, at least two Quarts in a Day. But that you may have a certain Prescription to depend upon, take this following, which has done Wonders in this Case, and will effect a Cure, if the Parient is curable, (viz.) R. Rad. Liquorit. Jiiij. Raf. C. C. Jij. Ras. Eboris 31. Sant. Citri 311. Lign. Sassafr. & Sarsaparilla, ana 3ij. Capil. Veneris, Ling. Cervin. Heder. Terrestr. Tussilag. Agrimon. ana Miij. Coq. omn. in Cong. vj. Aq. Font. ad Cong. iv. cum Uv. Paff. Exacinat. toj. Mel. Anglican. toviij. strain, and ferment with Yest, (like Ale) and when it is almost fermented enough, hang in it (in a Bag) Nuc. Mosc. contus. No iij. Fol. Rorismar. fice. Mj. Keep it a Week, and then drink it for common Drink, for four or fix Weeks. If a Fever attends, use the Cortex also; and if it be very high, make the Drink with half Honey, and half Sugar.

Q. You say, that one Reason why a Fistula of the Breast is of difficult Cure, is, because the Ending of the

the Fistula is lower than the external Orifice; pray tell me how this is to be remedied?

A. By Incision; in which two things are to be considered; first, the Place; and, secondly, the Care to be used in the Operation.

Q. What Place is best?

A. The left fide rather than the right, for fear of wounding the Liver, or the Diaphragma, which it beareth up; and as for the particular Part, let it be about the beginning of the next Rib, above which the Orifice of the Fistula shews itself.

Q. How is it done?

A. Divide the Skin towards the upper Part of the lower Rib, then make way throughout the intercostal Muscles, and dry all with a Sponge, and put in a Sponge Tent; and if you pass no further than the Division of the Pleura, you are safe.

Q. But what are the Signs of an Hectick Fever?

A. If it be confirmed, the Eyes grow hollow, the Colour of the Skin decays, the Skin of the Forehead feems dry and stretched out, the Eyelids are heavy, the Cavity of the Breast feems as hollow as if it was without Vifcera, and the Body is a mere Skeleton: These are true Signs of a Hestick Fever, or a dry Marasmus.

Q. But if such a one comes to you, and implores your Help, and you tell him his Danger, and that you believe him past Recovery, yet be still desires you to do what you can, what is the Method you would use, to

make his Life easy?

A. I would inject into the Fistula, Aq. Planag. in which Fol. Ros. Rub. have been boiled, and cover my Tent with Diapalma; I would order him Broths of Mutton, Veal, Chicken, &c. wherein had been boiled French-Barley, Mallows, Raisin, Mari-

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ill-cu Mate whice Marigold-Flowers, Gowstip-Flowers, Coltsfoot-Flowers, &c. Also give him Jellies, Almond-Milk, Goats-Milk, or Asses-Milk, Calves Feet stewed, poached Eggs, and fresh sweet Butter; and if by this Method he gathers any Strength, be not out of hope, and encourage the Patient.

Q. But what are your local Medicines in Fistula's

bere without a Hectick Fever?

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A. The Method here differs but little from the general Method: Dilate with the Fifula Tent and Sponge; but in removing the Callus, take care that the Trochisk do not reach to the Cavity of the Breast, but rather apply a Tent arm'd with Populeon, wherein some Fistula-Powder has been mingled; and when the Callus is removed, mundify with Aq. Calcis, and Mel. Rosar. (but take heed of injecting any bitter Medicine.) This being done, proceed, and consolidate with an Injection of Aq. Plantag. & Syr. & Ros. sic. Then wet a Pledget in this Syrup, and lay over the Orifice, and an Emplaister ex Paracels. over all, &c.

CHAP. XVIII. Of a Fistula in the Belly.

Q W Hat Parts do you include, when you speak of a Fistula in the Belly?

A. I understand and include the inguinal Parts,

and in Ano.

Q. From whence do Fistula's in the Groin proceed?

A. Either from Venereal Buboes, neglected or ill-cured, or from a Plethora and Cacochymia, the Matter not coming to the Emunitories themselves, which receive the Excrements of the Liver, but hinder'd

hinder'd either thro' Weakness of the expulsive Faculty, or by the crossing of the Muscles.

Q. What Presages can you make in this Case?

A. Fistula's in these Places, which pass to the Cavity of the Abdomen, are very hardly cured; and if the Guts are eroded, and the Excrements come forth, 'tis great odds, but Death puts an end to the Controversy; tho' such things have by chance been cured, and therefore Men are not to

be left to perish without Help.

And if there is any Belief in Man, by the Diet-Drink in the foregoing Chapter, Mr. Paine, a very fensible ingenious Surgeon, and an honest sober Man, now living at Laystoff in Suffolk, (from whom I first had the Prescription) told me, That a Woman, who by reason of a Tumor on the Abdomen, had a Mortification of the Intestines, with loss of Substance there, whereby the Excrements came continually out; and altho' all hopes of Life were gone, was perfectly cured, (as it were miraculously) by the internal Use (alone) of that Drink, with fit external Applications; And, what has been, may be; therefore never despair, so long as there is Life; and fuch a Cure will never want Applause, nor fail of Reputation as well as Reward.

Q. How are these Fistula's to be cured?

A. If they run along superficially, the best way is to lay them open, and then the Fistula Powder to be applied, and follow the Method already laid down, in order to finish the Cure.

Q. Tho' you can promise no Cure, if the Spine be foul, yet something must be done, as long as there is

Life; pray how will you dress such a Patient?

A. Only use such an Injection as this of Aq. Plantag. Syr. Ros. ficc. Tinct. Myrrha, &c. with a Plaister ex Paracels. &c. over all.

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A. Let the Patient's Diet be Sheeps and Calves-Heads and Feet stewed; also Rice boiled in Milk, wherein Steel has been often quenched; also a Glass of red Wine with a Toast, and use the Diet-Drink aforesaid, and keep the Orifice open with a Sponge Tent, till the Gut be healed. Distolve a little Alum. Roch. in Vin. Rubr. and add Syr. Myrtillor. and make an Injection; and for the rest of the Cure, do as has been directed.

Q. From whence proceeds a Fistula in Ano?

A. Most commonly from a Phlegmon there, broke, and ill-cured.

Q. What are the Differences of Fistulæ in Ano?

A. Some penetrate the Intestinum Rectum, and some do not; and both these again, are either superficial or deep.

Q. How will you know whether it has pierced the

Intestinum Rectum, or not?

A. By these Signs: (r.) If upon breaking Wind part of it makes way thro' the Sinus. (2.) If the Excrements appear mingled with the Quittor. (3.) If an Injection passes quite through. (4.) By the Finger and Probe.

Q. What Prognosticks have you in this?
A. No Fistula in Ano is easy of Cure.

Q. Why?

A. Because this Part is the Sink of the whole Body, and affords great Quantity of Filih and superfluous Humidity, which hinders the Cure.

Q. How will you proceed in the Cure?

A. It is to be effected, (1.) By convenient Diet. (2.) By inward Medicines. (3.) By Incision or Deligation: And (4.) By proper Medicines.

Q What Diet and internal Medicines are best?

A. That which I have already directed.

Q. When

Q When is Incifion or Deligation to be attempted?

A. When the Fistula is superficial, and not else.

Q. How is Incifion to be made?

A. If the Fiftula does not pass to the Intestinum Rectum, after you have enlarged it and removed the Callosity, lay it open by a Snip of your Probe-Scissors, and by Dorsels keep the Lips asunder; then digest, mundify, incarn, &c. as has been directed; and be sure to take care, that sound good Flesh be generated in the Bottom, before you endeavour to unite the Brims.

Q. But suppose it to go deep inwardly, and you

cannot come to make Incision?

A. Then dilate the Fistula with the Fistula or Sponge-Tent, and remove the Callus with the Trochisk aforesaid; which being come out, and the Callus quite gone, cleanse with Mel. Ros. & Aq. Calcis; then consolidate and cicatrize, as has been taught; and remember daily to shorten your Tents, till the Sinus is quite fill'd up, which you shall know by the Goodness and small Quantity of the Matter it yields. But if the Fistula reach into the Intestinum Rectum, then cutting as under the whole Length of the Sinus by Deligation, is the best way to cure it.

Q. How is that performed?

A. First dilate the Sinus, and remove the Callus, as has been taught, and then take a strong Thread of Silk, or Hemp unwhitened, and put one End of it into the Eye of a small Probe or Needle, of Lead, or Silver, or other thing that will bend; then put the Eye with the Thread thro' the Sinus to the Intestinum Restum; then put your Fore Finger into the Anus, and pull the Thread and Probe out of the Anus; then make good Deligation, tying the Ends of the Silk with a running Knot, that it may be the more easily loosen'd; and so more and more draw

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draw in the Ends of the Thread at every dreffing, if it may be permitted: And when the Sinus, by this way, is wholly divided, proceed in the Cure as has been taught; but remember to put under the Knot a small Boulster of Linen; which will be for the great Ease of the Patient; and without it the Ligature will not be tolerable.

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CHAP. XIX.

Of an Herpes Exedens.

Q. W Hat is an Herpes? A. It hath its Name à Serpendo, from There are three Species of its creeping Quality. it: (1.) A Simple Herpes, which is a Pustule of a yellowish inflamed Colour, with a sharp Head; in the Face they appear fingle, and in other Parts fometimes, and are generally called Cholerick Pultules. When they overspread the Back, Sides, or Breaft, they are accompanied with an Eryfipelas, and are then called Shingles. (2.) Herpes Miliaris; this ariseth in a Cluster of small Wheals. not much differing from the Colour of the Skin: they itch; and being scratched, they weep a thin Water, which drying, a Scab appears at the head of each Wheal, in the form of Millet-Seed, from whence it hath its Name. (3.) Herpes Exedens; this rifeth in the Skin, in a small Tubercle, on the Top of which appears an Ulcer like a Pin-Hole, which in time grows broad, uneven, and sometimes livid, and will heal in the middle, whilst the Brims continue fore.

Q. What is required in the Cure of an Herpes Exedens?

A. (1.) The Humour which flows to the Part is to be stay'd. (2.) The Humour already in the Part must be evacuated. (3.) Convenient Applications to cure the Ulcer it self.

Q. How is the first performed?

A. By purging the Body well from thick Choler and Bilis Atra, (if the Ulcer is of a livid Colour) with Elect. Lenitiv. Pulv. Sanct. Rhab. Sena, Polypod. Hermodact. &c.

Q. How is the second performed?

A. By mixing 3j. Præcipit. Rub. washed in Rose-Water with Unguent. Popul. or Mundificativum Paracelsi 3j.

Q. How long is this Medicine to be used?

A. Till the Ulcer spread no more, and look red.

Q. How is the third Intention performed, which is

to cure the Ulcer it felf?

A. Give inwardly a Decoction of Sarsaparilla, China, Guaiacum, &c. and if you perceive the Brims of the Uker to erode, further and further, touch them with Ol. Vitrioli, or Ol. Sulph. Then endeavour to fill up the Cavity by Medicines which strongly dry (yet are not corrosive;) as Cerus. & Tutia Praparat. Cort. Pin. cum Unquent. Nicotian. O Liniment. Arcai, &c. Or Ry Unguent. Enulat, cum Mercur. 3j. Flor. Sulphur. 3j. misce; which is commended by fome: and then cicatrize with Unquent. Defice. Rub. &c. A Simple Herpes is cured much like an Eryfipelas, by Evacuation and Contemperation of Choler; an Herpes Miliaris is to be treated much like the Itch, with Catharticks and Alterants. As for local Medicines in a Simple Herpes, Succ. Polygoni, Equiset. Plantag. Litharg. Auri, Ceruss. Ol. Ros. Unguent. Alb. Diapomphol. Nutrit. Popul. &c. But an Herpes Miliaris requires more powerful Exficeants, and even Mercurials; which may be feen at large in Wiseman, in the Chapter of Herpes, &c.

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CHAP. XX.

Of a Phagedæna and a Nome.

Q. What is a Phagedænic Ulcer?

A. It is a deep Ulcer with tumify'd Lips, corroding the adjacent Parts, produced of a bilious Humour, inclin'd to Melancholy, not so thick as that which is the Cause of Cancers, nor so thin as that which causes an Erysipelas or Herpes.

Q. Why is it called Phagedanic?

A. Φαράδαινα is a Greek Name, derived from Φάρω, (in Latin Edo) to eat; so that a Phagedanic Ulcer, is Ulcus Exedens, or an Eating Ulcer.

Q. What is a Nome?

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A. Nous, or Ulcus Depascens; in English, is a feeding consuming Ulcer, without any Tumor in the Brims, but endued with Malignity and Putrefaction, and Corruption of the Part.

Q. How are these Ulcers to be cured?

A. Let the Diet be such as affords a good Juice, and is of easy Digestion, and make a reasonable Evacuation by Catharticks; and keep them to a Diet-Drink of Sarsa, &c. join'd with some vulnerary Herbs. Dress the tumify'd Brims of the Phagedænic Ulcer with Unguent. Alb. and Popul. mix'd; and the Ulcer itself with Unguent. Nicotian. 3j. Mercur. Præcipitat. Rub. 3ij. misce. But as for a Nome, or Ulcus Depascens, it requires stronger Medicines than a Phagedæna; as Vitr. Alb. Croc. Mart. Calc. Viv. Alum. ust. Plumb. ust. Æs ust. &c.

Q. How long are these Medicines to be used?

A. Till the Erofion stops, and the Ulcer looks clean and red, then incarn and cicatrize, as has been taught.

CHAP. XXI.

Of a Cancer, and a cancerous Ulcer.

A. It is a Tumor proceeding (as Authors fay) of Bilis Atra, hard, unequal, of a leaden Colour, hot, painful, having full Veins appearing in the Parts adjoining, which imitate the Feet of a Crab, from whence it receives its Name.

Q. What is the Cause of this Ulcer?

A. A very hot Distemperature of the Liver, of Spleen, ill Diet, bad Wines, a hot Air, and sometimes a violent external Force, Grief, &c.

Q. What Parts doth it mostly invade?

A. Altho' it is possible for it to breed in all Parts of the Body, yet it generally seizes either the Breasts or Matrix of Women, and the Lips and Nose of the Face.

Q. Why does it rather seize those Parts than others?

A. The Breasts more readily receive this Humour, because of their loose and glandwous Substance; and a long Retention of the Menstrua, (whereby the Blood is, as it were, burned) is the

reason of its seizing the Matrix.

Q. What Prognosticks are to be made in this Case?

A. (1.) No Cancer is of easy Cure. (2.) When it is come to a remarkable Bigness, it is to be extirpated. (3.) If the Patient be weak, and the Tumor very stubborn, (and more especially if it adhere to the Ribs,) tamper not with it, but content your self with Lenients; for if you use either Knife or Cautery to such, you hasten their End, and bring a Reproach upon yourself. (4.) Never be

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be too large in your Promises of the Cure, where Extirpation cannot be made, especially if it be ulcerate.

Q. What is your Dietetick Method in the Cure?

A. Let them forbear all strong Wines, Cabbage, Cheese, and salt Flesh or Fish; as also all things that thicken the Blood, and inflame the Humours; let their Diet be cooling and moistening; Violet-Leaves, Spinage, Pursiain, Sorrel boiled; also Mutton, Veal, Lamb, Pullets, poached Eggs, and Fishes that swim in clear Rivers; and let their Drink be a small Ale, &c.

Q. What is your pharmaceutick Means?

A. Bleed in the Arm, if it be in the Breast; and in the Saphena, if it be in the Matrix; and let it be done at the full Moon: also give Elect. Lenitiv. in Whey, or Rhab. Sen. Pulv. Sanctus, &c. once a Week.

Q. What is the Chirurgical or Topical Method?

A. In a Cancer there is a double Poison, a Putre-factive and Corrosive: Now, if you use such Medicines as suppurate other Tumors, you will bring Putrefaction; and, if you apply Corrosives, you affist the Poison, and increase the Malady.

Q. What are then best?

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A. Those which repel and digest; but show all Emplaisters, for they pen up the Humour by shutting the Pores: You may use Succ. Nigel. Unquent. Popul. Farin. Lupinor. Secale, Succ. Symphit. Equiset. Plantag. Millefol. Tapsus barbat. &c. made into Cataplasms. Also Limac. & Succ. Heder. Terrest. is accounted a good Cataplasm; but if the Tumor be very painful, apply Rad. Cicut. Farin. Secal. & Ol. Myrtillor. mixt into a Cataplasm. Also, R. Ol. Cydonior. Fiv. Acet. Sambuc. Fij. and mix them well in a headen Mortar; with either of which dress the Tumor twice a day: But some use only a Plate

of Lead, rubb'd over with Argent. Viv. and so apply it to the Part. And thus far of a cancerous Tumor not ulcerate.

Q. What is a Cancerous Ulcer?

A. It is known by these Signs, (viz.) thick Lips, a stinking Smell, the Lips are turned outward, greenish, and fretted, yielding a Sanies of a black or dark yellow Colour, and is extremely painful.

Q. What differences are there found in these Ul-

cers?

A. Two; (viz.) Lupus, and Noli me tangere; the former is in the Thigh or Leg, and the latter in the Face: but in any other part of the Body it carries its own proper Name of a Cancer only. There are some Cheats that go about, to gull charitable People out of their Money, by pretending to have a Lupus, or Wolf alive in their Breasts, that they are forced daily to feed with raw Beef, Oc. Beware of such Impostors, and expose them, for such a thing is altogether impossible, and unbecoming a Surgeon, so much as to name, unless by way of Contempt.

Q. What Method must be used in the Cure?

A. The same that was prescribed in a cancerous Tumor, (as to Phlebotomy, Diet, and Purging). To the Ulcer apply Cloths wet in Succ. Solan. who Nicotian. Angl. or in Aq. Sperm. Ranar. in which is dissolv'd Sacc. Saturni; especially if the Cancer be not ulcerate. Also Plumb. ust. O lot. Tutia, O. Ros. Cera, Succ. Solan. &c. beat up in a leader Mortar, to the Consistence of an Unguent, and applied, Oc.

Q. Will these Medicines serve in all cancerous U-

cers without distinction?

A. No; they only serve to allay the raging Pain in large and deep Cancers, and to put a stop to their Increase

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Increase; but if it be only superficial, it may be eat out with sublimed Arsenick, as some Men have taught: But this is a very dangerous Attempt; and we never met with any such Application that succeeded, and shall hardly ever make the Experiment.

Q. But suppose this Grief happens in the Marrix?

A. Then use this Medicament, & Stercor. Bubul. thiv. Herb. Rob. Plantag. Semperviv. Hyosciam. Portulac. Lactuc. ana Mj. Canc. sluv. No xij. Contund. omnia; & distil. in Alemb. Plumb. Imbuet. Camphora, & injiciatur frequent.

Q. How is a Noli me tangere cured?

A. B. Vitriol. this. Auripigment. Sulph. Viv. ana siv. Sal. Gem. siij cum Aceto fiat pasta in olla terrea probè lutata, siccetur in furno. This, by divers Applications, will consume this, and other Cancers: And then digest, deterge, and incarn, and then cicatrize with this; B. Mel Dispumat. sij. Sevi. Hircin. Limat. Chalyb. ana siss. Litharg. Aur. sij. misce.

Q. But if, notwithstanding all your Endeavours, it

still increases, what must be done?

A. Warn the Patient of the present Danger, and propose Extirpation.

Q. What ought to be look'd to, in order to have it'

succeed well?

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A. (1.) That the Patient be strong, and of a good Habit, and not too cold, nor the Menstrua ceased. (2.) That the Cancer be loose, and the Axilla free from painful Glands. (3.) That it be extirpated in the Spring or Autumn, &c.

Q. How is it to be performed?

A. Let the Patient be placed in a clear Light, and held steady, and dexterously pass two Needles made for that purpose, thro' the Breast crossways, over which pass Tape from one to t'other,

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for Hold for your Fingers; by which pull it to you with one Hand, and, with the other, nimbly make Incision, and cut it off as close to the Ribs as possible, that no Parts of it remain behind. But if any cancerous Gland should remain, be fure to have actual Cauteries of different Sizes ready het by you, to confume it, and to stop the Bleeding; or otherwise apply, for restraining the Hemorrhage, Dorfels dipt in scalding-hot Ol. Terebinth. per se; or Buttons dipt in the same; first arm'd with the common Restrictive, and so laid to the Mouths of the Arteries; and over all, Pledgets armed with the same : then after good Boulstering and Rolling, conveniently place the Patient in Bed, and at Night give her an Anodyne Draught. But the most certain and decent way is, to make a Ligature on the Ends of the Arteries, and then you are safe from a Hemorrhage, beyond all dispute. Then the second or third Day open it, digeft, deterge, incarn, and cicatrize, as in other Amputations; keep the Body foluble, and take care to prevent a Fever: Also now make one or more Fontanels; for if any evil Quality remains in the Humours, the Ulcer will hardly cicatrize.

Q. But if notwithstanding, the Lips do grow cal-

lous, what will you do?

A. Then timely attempt their Eradication, by actual Cautery, lest you repent it when it is too late.

Q. But is there no other Way, but this frightful

one?

A. Some pretend to do it by Causticks, but it is so often to be repeated, before it can have its Effect, that the Remedy proves worse than the Disease.

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Of a Discolour'd, and Varicous Ulcer. 71

CHAP. XXII.

Of a Discoloured, and Varicous Ulcer.

Q. W Hat are the unnatural Colours which possess an Ulcer?

A. They are in Number four; (viz.) red, yellow, livid, and black.

Q. What is the Cause of these?

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A. Either Blood offending in Quantity or Quality, or too hot, or from too hard Bandage, or by furfeiting, by folemn Evacuations suppress'd, and by things apply'd too cooling, Oc.

Q. How will you remove the red Colour?

A. The Diet must be cooling and moistening, let his Rollers be dipt in Acet. Refar. and Aq. Font. and not rolled too slack; avoid violent Motion, provoke natural Purgation, if suppress'd: Blood is to be drawn, if it abound, and the Part is to be scarrified, &c. if needful.

Q. How is the livid Colour to be removed?

A. If it proceed from Cold, which you may easily perceive, make use of such Medicines as are able to reduce the Part to its natural Heat, made ex Rad. Rapi, Raphani, Pulv. Caryoph. Ol. Lini Vet. q. s. & fiat Cataplasm. And, if need be, use Scarrifications, Cupping-Glasses, &c.

Q. How is the black Colour to be removed?

A. Scarrify the Parts deep, and foment them well, and treat it as the beginning of a Mortification; and if either of these Accidents happen to an Ulcer, let them be treated as here directed, till the Part comes to its natural Colour; and then go forward, as has been taught in the Cure of compound Ulcers.

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Q. What

72 Of a Discolour'd, and Varicous Ulcer.

Q What is a Varix?

A. It is a Dilatation of a Vein, causing a Tumefaction of it, with Windings and Tortuosity, arising in some part of the Body.

Q. Why is it called a Varix?

A. From the Likeness it bears to the Protuberances, which are seen in Trees above the Bark, called Varices.

Q. Whence are they caused?

A. Either from Blood impregnated with Spirits, or from melancholy Blood, or thro Excess of Labour, or immoderate Exercise.

Q. How are they to be cured?

A. By discharging the Body of the offending Humours, and by manual Operation; shun gross Meats; open a Vein, and give Lenitives, mixed with such as purge gross Humours, as, Lenitiv. Elect Pulv. Sanct. &c.

Q. How is their Chirurgical Cure to be performed?

A. By Ustion, by Excision, and by taking up the

Q. How are these done?

A. As to the first two, they are so painful and terrible, that scarcely any Man would undergo the Operation; therefore I shall speak nothing of them: but as for taking up the Vein, it is thus done; Take up the Varix, both above and below, in both which Places make Deligation, and open the Vein between them, that the Blood may be discharged out of it, Gc. and wait the Separation of the Ligatures, and heal as in other Wounds.



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CHAP. XXIII.

Of Ulcers of the hairy Scalp.

Q. W Hat is an Achor?

A. It is an ulcerous Tumor of the Skin of the Head, red and Dug-like, having very small Holes, from whence proceeds a thin Sanies.

Q. What is a Favus?

A. It is the same, yet wherein the Holes are larger, and which contains an Humour resembling Honey, from whence it is denominated.

Q. From whence is it caused?

A. The primitive Causes are, corrupt Nourishment and Contagion, and by Contast and frequent Conversation; the material Cause, is a sharp, fretting, viscous Humour; and the conjunct Cause, is the same Humour impasted in the Skin of the Head.

Q. What are the Signs?

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A. In both Achor and Favus, there is an itching and a Tumor with Holes, and tho' often both are attended with Lice, yet it is proper for a Favus to have Scales.

Q. What are your Prognosticks?

A If they continue long, they leave behind them a Baldness of the Part; but those Children who have it, are freed from the Falling Sickness; and if it be bereditary, it is very hardly cured at all.

Q. What are the Means of Cure?

A. A convenient Diet, Phlebotomy, Purgation, and proper Applications to the Ulcers?

Q. What

Q. What Diet is most proper?

A. It must be cooling, moistening, and affording a laudable Juice; but all strong, sweet Wines, sharp salt Meats, hard Eggs, Fishes living in muddy Water, and Purslain, are to be shunn'd. As for Phlebotomy, it must be prescribed and repeated; if there is a Plethora, or if much corrupt Blood is settled in the Vessels of the Head, purge with Confest. Hamech. Syr. Ros. solut. cum Agarico, Pulv. Santt. Troch. Alhandal, &c. Purge with some of these once a Week: Also Sternutatories may be used, if it be thought necessary.

Q. What are proper external Applications?

A. They must be such as are aftringent and repelling, which we discoursed of in the Doctrine of Tumors. Busyr. Revent. Axung. Porcin. Sulph. Viv. Helleb. alb. & nigr. Calc. Viv. Merc. Crud. Litharg. Gallar. Alum. Acet. Ol. Vet. Pic. Liquid. &c. Pull out the Hairs, then soment with a Decoction of Vin. Rub. Cort. Granat. Bacc. Myrtillor. Fol. Ros. Rub. &c. and then apply your Unguents.

Q. Are these Medicines to be used indifferently to

all ?

A. No: But to Children apply the milder fort; and in all, proportion things according to Art.

Q. But suppose the Ulcers be very moist, and apt to be inflamed by the Application of untituous Medi-

A. Then instead of Assung or Butyr. Rec. make up your Medicines with Oxymel Simplex, and abstersive Powders, and Farin. Hordei, and over them a Cap of Ivy-Leaves sewed together.

Q. What is that Ulcer of the Head which is called

Tinea?

A. It is a crufty fretting Ulcer of the Skin of the Head, without very much Moisture, corrupting the Roots of the Hair, and fending from the Skin Skir Calle

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Skin a dry stinking Filth, which is commonly called a Scall'd Head.

Q. From whence is it caused?

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A. Either from things not natural, or corrupt Milk, or Contagion, or elfe is hereditary.

Q. What are the Signs of this Difeafe?

A. It is known by its dry crusty Scales, which are sometimes yellow, sometimes Ash-colour'd, or greenish; but most commonly white, and never altogether black.

Q. What are the Presages of the Difease?

A. (1.) It is very hard of Cure. (2.) If the Skin be hard, and many Scales appear, and the Hair falls away, it is of most difficult Cure. (3.) When it is cured, it often leaves behind it Baldness. (4.) The older they are, the harder of Cure.

Q. What Indications offer themselves in the Cure?

A. (1.) To remove the Cause: And, (2.) to cure the Ulcer by proper Means: The first is done by rightly ordering the Non-naturals, by Catharticks and Phlebotomy, as was directed in an Achor and Favus; only remember to add mercurial Preparations to your Catharticks, and repeat Phlebotomy at least once a Quarter, or oftner if it be necessary.

Q. How is the Ulcer to be cured?

A. Take care to avoid meddling with tender Children, until they are able to bear sharp Medicines; but in the Interim, that something may be done, you may apply to the Part, a Liniment ex Ol. Ovor. Croc. Martis & C. C. and lay over it a Cap of Ivy-Leaves; but apply Repercussives, for the Humour is so thick that it cannot be repell'd.

Q. How will you proceed ?

A. First, Procure the Separation of the Scale: Secondly, Pull out the Hairs by the Roots; and Thirdly, Heal the Ulcer.

Q. How

Q. How will you cause the Scales to fall off?

A. By Unguents made ex Ol. Ped. Bov. and Mucilages ex Rad. Althea, Sem. Lini & Fænugr. &c. And I have known where, green Ellicampane-Roots, boil'd tender, pith'd and pulp'd through a Sieve, and mixed with a fourth part of Hog's-Lard, have been used with great Success; being daily anointed on the Part.

Q. How will you then cure the Ulcers?

A. Either with Unquent. Enulat. cum Merc. and over it Empl. de Ranis cum Merc. Or, Be Succ. Fumar. Oxylapath. Acet. ana Biv. Ol. Vet. Ibj. Coq. omn. ad Succ. Confump. & adde Pulv. sequent. Be Helleb. alb. & nigr. Sulph. Viv. Calc. Viv. Alum. Gallar. ana 3ss. Virid. Æris 3ij. Pic. Liquid Biss. Ceræ q. s. fiat Ceratum, and apply it. And, while this is doing, purge once a Week; which is all we need discourse of, with relation to this Distemper, being in every Chapter confined to Brevity; our Design being only to give the young Artist a rational Idea of his Art, without a multitude of Words.



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C H A P. XXIV. Of Ulcers of the Ears.

Q. What is the Cause of Ulcers in the Ears?

A. A Blow, a Fall, or a sharp Humour sent from the Brain.

Q. What are the Prognofticks in this Case?

A. (1.) If the Cure be neglected, Deafnels enfues. (2.) If greater Plenty of Matter comes forth, than it is reasonable to suppose the Ears can produce, then you may be sure, that the greatest part of it comes from the Brain. (3.) If before the Matter comes out, the Patient seels great Pain and Pulsation, it certainly proceeds from a Phlegmon bred there.

Q. How will you proceed in the Cure?

A. Before any thing be applied, purge the Head with Pil. Coch. maj. or Pil. de Aggregativ. Diagrid. &c. (2.) Let the Applications be neither too hot, nor too cold. (3.) Let them be all liquid. (4.) After dreffing, let the Patient for some time lie upon the well Side, the diseased Ear being stopped with Wooll. (5.) Avoid all oily and fat Medicines.

Q. What local Medicines will you use?

A. Crocus Martis, boil'd strongly in Aceto: Also Fol. Alchimil. Sigil. Solomon. Plantag. Equiset. &c. boiled and made into a Syrup; which will be the better by adding Cort. & Flor. Granat. Sumach. Bacc. Myrtillor. & Fol. Ros. Rub.

Q. How will you know if the Ulcer have Worms in

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A. By their Motion they will cause intolerable Itching.

Q. What will you dress with in such a Case?

A. With a strong Decoction, ex Cerevis. non lupulat. O Fol. Nicotian.

Q. What must be done if a Fungus rises, and fills

up the Cavity of the Ear?

A. (1.) Purge the Head. (2.) Confume the Fungus by a careful Application of Realgar. alb. Auripigment. & Calc. Viv. ana p. a. (3.) Inject into the Ear, Vin. Alb. Mel. Rosar. O Ægyptiac. (4.) To heal it, inject fome vulnerary Syrup in Ag. Plantag. or Rof. Rub.

CHAP. XXV. Of an Ophthalmia.

Q. That is an Ophthalmia Vera? A. An Inflammation of the Tunica Adnata of the Eye, attended with Tumor, Pain, Heat, flowing of Tears, the Eye-lid is turned up and fomewhat ulcerate, Oc.

Q. What are its Causes?

A. Either a Blow, a Fall, or sharp Humours, or Oil, Smoak and Duft.

Q. What are the Differences of an Ophchalmia? A. They are either Mild or Malignant; the Mild is when only the Adnata is inflamed; the Malignant, when it tizes it with the other Symptoms before mentioned.

Q. Why should Oil cause this Disease?

A. Because it cleaves fast to the Tunicles, stops the Pores, and so keeps in the Heat and inflames the Eye; and the Heat, being pent in, burns when ic (mo

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it cannot breathe through, and inflames the Humours, and so causeth an Ophthalmia.

Q. What are the Prognosticks?

A. That coming from an external Caufe, is more easily cured than that of an internal one. If a Pain in the Head is joined with it, and it continue long, Blindness may be feared. (3.) If the Humour be thick, it will not continue long. (4.) If the Matter be very much and thin, it is like to continue long.

Q. What are the Intentions of Cure?

A. A proper Diet, Phlebotomy, Purgation, Collyriums, and a Seton, or Fontanel.

Q. What particular Rules are to be observed?

A. He must be sparing in Meat and Drink, abstain from Venery, and keep the Body soluble; let his Sleep be moderate, and the Room kept dark; let the Objects he looks on be green: if his Hair be on, cut it off; and, if Strength will permit, bleed him; or if not, apply Cupping-Glasses to his Shoulders; and, to stay the Fluxion, apply a strong Defensative to the Forehead and Temples.

Q. Of what Qualities must your local Medicines

be ?

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A. Something astringent, cooling and anodyne; as, Aq. Alb. Ovi, Mucilag. Sem. Cydonior. Fænugrec. &c. drawn with Aq. Plantag. Or, Aq. Rosar. cum Minim. Croc. Also, Troch. Alb. Rhas. fine Opio, dissolv. in Aq. Sperm. Ran. Or, Aq. Euphragia cum Pulv. Tutia, &c.

Q. But suppose this does not do the Work?

A. Then apply Cupping-Glasses, and make a Seton in the Neck, and purge and bleed, as has been directed.

Q. What is the Tunica Adnata?

A. It is the outmost Tunicle of the Eye; it springs from the Pericranium, and is spread over

all the White of the Eye, above the Sclerotica, reaching as far as the Iris; by which the Eye is kept firmly within its Orbit, and from whence it is called Conjunctiva: It is of most exquifite Sense, and has many capillary Veins and Arteries creeping through it, which appear very plain in an Ophthalmia, or Inflammation of this Tunicle.

THE REPORT OF THE PARTY OF THE

CHAP. XXVI.

Of the rest of the Ulcers of the Eye.

Q. TXTE have said enough with relation to an Ophthalmia; inform me now what other Ulcers the Eye is subject to: And first name the mild

A. They are in number feven, four superficial ones, and three deeper: The first is called in Greek axavs, Achlys, in Latin Caligo, in English a Mist; it is a very superficial Ulcer, of a bluish Colour, possessing the greatest part of the Black of the Eye. The second is called repensor in Greek, in Latin Nubecula, in English a Cloud; this is deeper, but narrower and whiter than Caligo. The third is called depenor; it is an Ulcer growing about the Iris; possessing part of the White and part of the Black of the Eye; without the Iris, it looks red; and within it, white. The fourth Superficial Ulcer is called imravua; this makes the Cornea rugged, and of an Ash-colour, resembling a Lock of Wooll. And now the fifth Ulcer, (which is the first of the deeper fort) is called Bibleiov in Greek, and Fossula in Latin; it is a hollow, narrow Ulcer of the Cornea without Filth; it is like a Puncture, or Dint. The fixth is called norrough;

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the same with Fossula, only it is something wider, and not so deep. The last Ulcer of the Cornea is called Egravua, inustio; it is an impure and crusty Ulcer, thro' which the Humours of the Eye sometimes come out, and then it is called Procidentia: Of which there are sour kinds; as, (1.) If it sall out but very little, it is called Caput Musca, and Formicalis, the Head of a Fly, or Pismire. (2.) If it sall down yet more, and equal a Grape in Bigness, it is called Uvea, or Uvatio. (3.) If it salls down yet more, and hangs down like a little Apple, it is called Malum, or the Apple-like Rupture. (4.) But if it salled Clavus, or the Naillike Rupture.

Q. How are these to be cured?

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A. These four last are altogether incurable; only the Apple-like and Grape-like Rupture, if the Roots are small, may by Ligature be taken off, but the Sight is not to be restored.

Q. How will you proceed in the Cure of the rest?

A. Proceed as directed in the Cure of an Ophthalmia; let your Catharticks be gentle, and avoid any thing that may cause Vomiting; and as to local Medicines in Superficial Ulcers of the Cornea, let them be such as these: Succ. Ruta, Chelidon. Euphrag. Sacc. Cand. Alves, Sarcocol. Fel. Capon. Croc. Metallor. Camphor. Tutia, &c. But if the Ulcers be of the deeper fort, then use such as these: Plumb. Uft. Antimon. Æs Uft. Gum Arabic. Croc. Angl. Opium, in Aq. Ros. vel Plant. &c. And dress the Ulcer four times a Day, and purge once a Week; and a right use of the Non-naturals must be enjoined. Let the Drink be small Beer, the Food of easy Digestion; avoid baked and fried Meats, and all strong Spices, Mustard, Garlick, Onions, Pease and Beans; and, instead of common mon Salt to your Meat, use this, R. Flor. Euphrag. Sem. Fænicul. ana 3j. Cinam. & Mac. ana Fj. Sal. Com. 3j. misce, fiat pulvis.

Q. What Ulcers of the Eye do you call Malignant?

A. They are in number five, three contagious, and two not contagious; (viz.) Carbunculofa, Venerea, Morbillofa, Nome, and Cancrofa. The Nome sometimes begins at the Corner of the Eye, sometimes at the White, and sometimes at the Cornea; this Uker is dangerous, and feldom cured without loss of Sight. Ulcus Cancrosus has a thin darkish Humour proceeding from it, is very painful, and incurable; all that can be done, is to give the Patient some Ease by Anodyne Cataplasms and Collyriums, and a strict Course of Living.

Q. How will you conjecture when the Small-Pox is

like to produce Ulcers in the Eye?

A. If there was an Inflammation in the Eyes, before any Pocks appeared in the Body; if he feels a great Pain in his Eyes, and cannot open the Lids.

Q. What is to be applied in such a Case?

A. Mucilages of Sem. Cydonior. Lini, Fænugrec. &c. made with Aq. Rofar. or Lac Mulieb. with Saffron in it.

Q. But suppose these Ulcers proceed from a Vene-

real Cause?

A. First cure the Pox, and these Ulcers will vanish; however, as something in the mean time must be done, R. Vin. alb. tbj. Aq. Plantag. 3vj. Auripigment. 3ij. Vivid. Æris 3j. Aloes, Myrrh. ana 91. fiat Collyrium, &c.

Q. But if through Neglect, or Ignorance, the Eyelid grows to the Conjunctiva or Cornea, what must

be done?

A. This is called in Latin, Coalitus: If the Lid cleaves to the Black, the Sight is altogether hindered;

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hindered; but if to the White, it is only impaired: and fometimes they cleave to neither, but to one another. And now as to the Cure; if the Eve-lid cleave to the Cornea, against the Apple of the Eye, the Sight never will be perfect again. But in attempting the Cure, proceed thus; Place the Patient in a convenient Posture, and lift up the Eye-lid which cleaves to the Membranes, and put between it and the Membrane, in that Part which is free, a fit Instrument, blunt on the back part, and very sharp before, and the Point armed; then artificially and dextroully separate the Parts united, taking care not to hurt the Eye: Then apply a Collyrium, ex Aq. Plant. & Troch. alb. Rhaf. and keep the Parts afunder with small Dorfels of Lint, put between the Parts disjoined, and wet Boulsters in the Collyrium, and apply over all, and roll him up: Dress it twice a day; and continue this Method till it is whole.

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CHAP. XXVII.

Of an Ozæna.

Q. TAT Hat is an Ozena?

A. It is a malignant Ulcer in the Nostrils, about the Holes of the Ethmoides, caused of sharp Humours eroding the Parts, attended with a stinking Smell, and sometimes with Crusts.

Q. What are the Prognosticks in an Ozzna?

A. (1.) They are all hard of Cure. (2.) That which is hid, is of a harder Cure than that which appears.

Q. Why are they hard of Cure?

A. (1.) Because the Brain sends plenty of corrupt Humours. (2.) Because the Part is of a moist Nature.

Q. How is such an Ulcer to be cured?

A. By observing a good Diet, as in other Ulcenthas been taught, and by Phlebotomy and Purging; and lastly, by fit Applications.

Q. What think you of Mercurial Preparations?

A. They are most effectual in the Cure of this Ulcer, whether it be simply of it self, or a Symptom of the Pox.

Q. Well; but what are your local Medicines?

A. I will first endeavour the Removal of the Crust, which is fixed in the fore-part of the Os Ethmoides, or Os Cribriforme; which I do thus: I turn the Patient's Face upwards, and his Head bent back; then with a Feather, I drop in warm, Morning and Evening, Ol. Amydg. Dulc. & Sperm. Ceti mix'd, and let him at the same time draw in his Breath, till he feels the Taste of it in his Mouth;

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Mouth; and this Method I continue every Day, till the Crust is fost; which, when I find it is so. I then, (after dropping in the Oil) at every Dreffing, cause him to snuff some sternutory Powder up his Nose, which, by causing him to sneeze, will force out some of the loose Crust: Which Method I daily use till all is discharged; then, instead of the Oil, use a Composition made of some of these Medicaments, Aq. Plantag. Fol. Querci, Alum. Balauft. Spir. Vitriol. Mel. Rof. Syr. Rof. Sicc. &c. Which must be injected warm twice a Day; and after Injection, that the Part may not foon become dry, apply fome fit Unguent: as Unquent. Tutia alb. Camph. ana 3fs. Mercur. Dulcis, 3j. misce, &c. Which Method, if rightly followed, will answer your Desires, without applying the actual Cautery.

Q. What is the Os Ethmoides, where you say the

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A. It is sometimes called Ethmoides, and sometimes Os Cribrisorme, indisferently: It is the second common Bone of the Scull and upper Jaw: It is seated in the middle Basis of the Forehead, at the top of the Nostrils, and join'd by a Suture to the Os Frontis; it, like a Sieve, hath many Holes, by which the Filaments of the Olfactory Nerves pass into the Nostrils, &c.



CHAP. XXVIII. Of Ulcers of the Mouth.

Q. WHat is to be done when the wrinkled Skin which covers the Os Palati is ulcerate? A. Scarce any thing is more certain and speedy, than this common Medicine of Mel. Rosar. O Alum. ust. ana q. s. Or, Aq. Plantag. & Mel. Rosar. cum Ol. Sulph. q. f. And afterwards heal with

Syr. è Rof. Sicc. & Spir. Vit. q. v. Q. But suppose the Os Palati is bare?

A. Then to the former Syrups add some Pulv. Sarcocol. Irid. Mastich. Far. Hord. &c.

Q. What must be done if a Piece of the Os Pa-

lati fall away?

A. If it is but a small Piece, you must keep the Brims of the Ulcer raw, and use the Incarnatives here prescribed, and Union may be procured; but if a large Piece come away, all Hopes of Unition are gone; and all that can be done, is, to cause the Patient to wear a Plate of Silver to supply the Defect.

Q. If the Tongue prove ulcerate, what will you ap-

ply?

A. If it be mild, a Decoction of Hord. Gallic. Althea, Liquorit. &c. cum Syr. Violar. may ferve; but if the Ulcers be malignant, as sometimes this Part is seized with a Phagedana and Nome, be sure to administer in time Merc. Dukis, in fit Doses, and often repeated, and apply'd to the Uker also: And as to the rest of the Cure, it may be gathered from what is already delivered in the Chapter of Phagedana, &c.

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Q. What is your Method in Ulcers of the Uvula?

A. If they be mild, those things prescribed in Ulcers of the Tongue may suffice; but if the Ulcer be fretting, it is either to be cured by Excission, or by sit Applications; (viz.) make a Gargle, ex Fol. Plantag. Veronic. Sigil. Solomon. Scord. Origan. In which dislove Mel. Anglic. q. v. And after gargling, touch the Ulcer with Mel. Rosar. Alum. ust. O Ægyptiac. warm; and do this twice a day till it be well.

Q. But if you find it proves rebellious, and yields

to no Applications, how must it be cut off?

A. First purge the Body; and if the Uvula be small about the Root, it will be so much the better (nay, indeed it will not be safe without it;) then with Scissors, or other sit Instrument, cut it off, and cauterize the Part with a red-hot Uvula Spoon, or other six Instrument, to restrain the Flux of Blood, Oc.

Q. If the Tonfilla, or Almonds, be ulcerate, how

are they to be cured?

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A. Make an Electuary, ex Rad. Irid. Florent, Cent. min. Myrrh. & Mel. dispumat. and be often applying it. And if the Throat be ulcerate beyond the Uvula, R. Aq. Limat. Ferri & Plantag. and Ibs. Flor. Ros. Rub. Balaust. and 3vj. Alum. Rup. 3ij. Digerant. in Arena per Hor. xxiv. & Coletur pro usu: And give Mercur. Dulc. inwardly, as you see Occasion. And if they are hard, and much sumified, and in a long time yield to no Applications; but are troublesome, and apt to choak the Patient; the readiest way is Excision: which is not difficult to do, with the Probe-Scissors, if Ligature be made on the Part; and the Hemorrhage may be readily stopp'd with a Gargarism of Oxicrate, or by applying gently a Cautery-Button.

CHAP. XXIX. Of Wounds.

A. It is properly a Solution of Continuity in any Part of the Body, caused by an external cutting Instrument; it is in Greek called

Travua, in Latin Vulnus.

Q. How many Intentions are there in the Cure of a

Mound?

A. Five; viz. (1.) To draw forth any extraneous Body. (2.) To bring the Lips together. (3.) To retain the fame. (4.) Preserving the Tone of the Part. (5.) To correct Accidents that have already seized on the Part, and to prevent others.

Q. What do you term Extraneous Bodies?

A. Shot, Hair, Rags, Dirt, Gravel, Splinters, or whatever is foreign to the Part wounded; which are to be extracted with that variety of Instruments, that the Nature of the Body and Position of the Member requires.

Q. Is this a general Rule without Exception?

A. No: For where you fee the Wound is of itself mortal, and where it cannot be done but with great Pain and Difficulty, and where the Wound may be cured without it, or leaden Bullets lodged deep in the great Joints, in these Cases Extraction is not to be attempted.

Q. Which way are extraneous Bodies to be extract-

ed?

A. By the same way they went in, except there is more fear of a Flux of Blood, or cutting a Nerve.

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Nerve, by the Extraction that way than on the contrary Part; or that the Figure of the extraneous Body is such, that it will not so easily pass back the same way it went, as it will through the Part opposite.

Q. How is Bleeding in a Wound to be stopped?

A. (1.) By restringent Medicines, as Pulv. Galeni, Bole, &c. mixed with Posca. (2.) By Deligation of the Vessel. (3.) By Injection of astringent Medicines, when we cannot come at the Vessel. (4.) By the actual or potential Cautery. (5.) By good Compress and Bandage.

Q. How many forts of Union are there in a Wound?

A. Two; (viz.) Symphifis, and Syffarcofis.

Q. What is Symphifis?

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g a rve, A. It is the Union of Parts disjoined, no middle Substance coming between; and this is called healing, by the first Intention.

Q. What is Sysfarcosis?

A. It is the Union of Parts disjoined by a middle Substance.

Q. How are the Parts disjoined, brought together, and retain'd so?

A. By flitching the Wound, and by good Bandage.

Q. How is the Tone of the Part to be preserved?

A. (1.) By a right ordering of the Non-naturals. (2.) The Medicines may not exceed in any Quality; (viz.) either hot, cold, moist, or dry. (3.) Bandage must be uniform, and neither too hard nor too slack. (4.) Take care, by a spare Diet, Lenitives, and Phlebotomy, to keep the Body from a Fever. (5.) Let them abstain from Venery

Q. What are reckon'd Accidents in a Wound?

A. Pain, Inflammation, Convulsion, and Mortification.

Q. How are these corrected?

A. As for Pain, if it proceeds from any external Cause, as hard Bandage, extraneous Bodies, &c. it is to be remedied by loosening the one, and extracting the other; but if from neither of these, then Anodynes are to be apply'd, such as have been already prescribed. Inflammations are remedied by Phlebotomy, Lenitives, and cooling Applications. In Convulsions, recourse is to be had to Unguent. Martiat. Ol. Succini, Juniperi, Spir. Castorei, Salvia, Lavendula, Ol. Ruta, Lumbricor. Vulpin. &c. Some apply'd to the Part, some given at the Mouth, some by Clysters, and some smelt to. And a Mortification is remedied by Scarrification, Fomentation, Ol. Terebinth. scalding hot, Spir. Vin. Ægyptiacum, Mercur. Pracipit. Rub. &c.

Q. What fort of Wounds are to be cured by Sym-

philis, or Agglutination?

A. All, whose Lips can conveniently be brought and kept together, by stitching and rolling, and where there is no great Contusion, nor loss of Substance.

Q. What is to be observed when you come to stitch

a Wound

A. (1.) Let it be done gently. (2.) Let the Parts be equally brought together. (3.) If the Brims be stiff, by reason of long being undress'd, let them be somented with Hydrelaum. (4.) No Dorsel nor Pledget must be put between the Parts.

O. What is Hydrelæum?

A. Oil and Water mixed, according to discretion.

Q. How many forts of Stitching are there in common

use?

A. Two; (viz.) Laqueatio, or dry Stitching, and Sutura, or Stitching with a Needle.

Q. What is dry Stitching?

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A. It is when Pieces of Cloth, cut jagged, or Saw-like, being placed on each fide of the Wound, are fluck on, by a fit Medicine, and so the difjoined Parts are brought together; and the Pieces of Cloth being sewed to each other over the Wound, keep it in a uniting Posture, without passing a Needle through the Flesh or Skin.

Q. In what Cases do you apply the dry Stitch?

A. (1.) If we cannot come conveniently to roll the wounded Part, as in all transverse Wounds. (2.) In Wounds of the Face, to avoid a Scar. (3.) If the Patient will not admit of Stitching.

Q. How is the Cloth to be prepared?

A. (1.) The two Pieces must exactly answer to one another. (2.) Let them be either doubled or hemm'd. (3.) Let them be strong, that they yield not to the Stitch.

Q. By what Means are these Cloths made to stick?

A. Dissolve Ichthyocolla in Aceto, & coq. ad Consist.

Empl. Or Medicines may be formed ex Farin.

Volat. Mastich. Gipsi, Gum. Tragacanth. & Arabic.

Bitumen, Colophon, Albumen Ovi, &c. These spread upon the Cloths, must be apply'd and suffer'd to dry on, before they be stitched, that they may not give way, and let the Stitches be about an Inch asunder. You may compound your Matter for the dry Stitch thus: & Pulv. Bol. Ver. & Mastich ana 3j. Thuris pinguid. 3iss. Taccamahac.

3ij. Mix them well with a hot Pestle and Mortar, and spread it, and let it lie on some time for it to stick well, before you stitch the Cloth.

Q. How many ways are there of Stitching with a

Needle in Wounds?

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A. First, the Glovers Stitch, which is used in the wounded Guts, Oc. The second kind is performed by taking divers Stitches, as far distant as the nature of the Wound requires, and at every Stitch Stitch to cut the Thread. The third is called Gastroraphia; this is made use of when the Peritoneum is divided by a large Wound, (and shall be discoursed of, when we come to treat of Wounds of that Part.) The fourth is, when the Needle is left in the Wound, being passed thro' both Parts, and the Lips brought close together, and the Thread passed about both Parts, as when a Taylor fastens it on his Sleeve: And this fort of Stitch is of use in Hare-Lips, and in Wounds of the Aspera Arteria, or Windpipe; but if you see fit, the Ends of the Needle may be snipped off.

Q. Of what use is Stitching in Wounds?

A. To keep the Lips of them close, in order to their speedy healing, and to restrain their bleeding.

Q. What is to be observed in Stitching?

A. (1.) Beware of Nerves. (2.) In long Wounds begin from the Ends, in short ones in the Middle. (3.) Let the Stitches be distant the breadth of a Finger. (4.) In deep Wounds, let the Stitches be deep; in superficial ones, the contrary. (5.) In Wounds made according to the length of the Member, stitching is not so necessary, because rolling will do the Work near as well.

Q. What is Fasciatio, or Rolling?

A. It is when we labour to keep the Lips of the Wound together by Slips of Linen-Cloth, cut in a due length and breadth, and made of Cloth only half-worn, and of an indifferent fineness.

Q. How long is it generally before Wounds that are

flitched are agglutinated?

A. Commonly in two, three, or four Days, if they are well managed; and then the Stitches may be cut, and the Threads drawn forth.

Q. How many kinds of Rolling are commonly in

use?

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A. Heat A. Four; (viz.) Incarnativa, Retentiva, Expulfiva, and Æquans; which are better understood by Practice, than described by Words.

Q. In what Cases are we to reject the Cure of Wounds by Agglutination, and heal them by Con-

carnation?

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A. (1.) If there is loss of Substance. (2.) In great Wounds of the Joints, and when the Ligaments and great Tendon of the Heel are cut in sunder. (3.) When we look for the Scaling of a Bone, or the Separation of a Piece of a Ligament or Tendon. (4.) When the Jugular Veins and Soporal Arteries are divided in Wounds of the Neck.

Q. How is Incarnation performed?

A. It has been already taught in the Doctrine of Ulcers, to which you are to have recourse.

CHAP. XXX. Of Gun-Shot Wounds.

Q. A RE Gun-Shot Wounds poisonous?

A. No: For both the Shot and most of the Ingredients of the Powder are used, both internally and externally, for the Cure of several Diseases, with success.

Q. What are the Symptoms of a Gun-Shot Wound?

A. Contusion, Pain, Inflammation, Convulsion,
Heat and Change of Colour, being sometimes of a
blue or Violet-Colour, sometimes the Wound is
black, and the Parts adjacent livid, &c.

Q. What are the Prognosticks in these Wounds?

A. If only a fleshy Part be wounded, and the Constitution good, it is of easy Cure; but if the Constitution be bad, with Fracture of the Bone,

or

or Laceration of the Nerves, Tendons, and Ligaments, the Cure is difficult, and at the best they are harder of Cure than other Wounds.

Q. Why?

A. (1.) By reason of the Contusion which always attends them. (2.) They more slowly digest than others, because the natural Heat is much abated, and the Spirits dissipated, by reason of the Contusion.

Q. How many Intentions are there in curing these

Wounds?

A. (1.) To draw out all extraneous Bodies, as Bullets, Pieces of Garment, contused Flesh, Shivers of Bones, &c. And, (2.) To apply convenient Medicines.

Q. What is your Method of Cure?

A. Extraneous Bodies being extracted, if the Wound bleeds much, dress it up for the present with Restrictives and good Bandage, and at the next dressing hasten to convert the contused Flesh into Pus; which may be done by arming your Tents with a Liniment compos'd ex Tereb. Ven. Mel. Myrrh. Croc. Angl. Vitel. Ovi. Ol. Catellorum, &c. with which arm your Tents and Pledgets; and over the Wound (to ease Pain, and cherish the natural Heat, and help forward Digeftion) apply a Cataplasm ex Mic. Pan. Rad. Althea, Flor. Chamamel. Melilot. Hyperic. Absinth. Farin. Hordei & Fabarum, & adde Ol. Rof. &c. Then imbrocate the Part with Ol. Hyperic. & Rosar. all round; and to the Parts above, to stop the Flux of Humours, apply a Defensative. Dress it twice a Day, if there be Occasion; but in that your Judgment must direct you. Keep the Body soluble by Lenitives or Glifters, and daily give some vulnerary Drink, Oc. composed ex Rad. Symphit. Alchimili Salvia, Verban. Scordii, Hyperic. Valerian. Plantag. Confolia. Confol Or 1 Mumn

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Consolid. Agrimon. Fol. Ros. Rub. Lign. Lentisc. &c. Or Powders and Electuaries ex Syr. Symphit. Mummia, Bol. Ver. Macis, Sperma Ceti, &c.

Q. What must be done if a Gangreen be feared?

A. Then use Ol. Terebinth. Gum Mastich, Sal.

Armon. Virid. Æris, Camphor. and Pracipit. Rub. alfo. O. We will suppose the Wound now well digested.

how must it be mundified?

A. With Mundificativ. ex Apio, or Paracelfi; to which (if the Wound be foul) add a little Unguent, Ægyptiac. and if the Sinus be very deep, inject a Decoction, made of some of the vulnerary Herbs, in Wine, and add some Mel Anglican. &c. then incarn and cicatrize, as in other Wounds.

Q. What Cautions are to be us'd in Dreffing thefe

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A. (1.) Use no Escharotic Medicines. (2.) Take care to shorten and lessen the Tents as the Wound incarns. (3.) If the Contusion be large about the Parts, they are to be scarristed. (4.) If the Parts are burned, they are to be dressed with such Medicines as prosit in Burnings. (5.) Forbear restringent Medicines, because they keep in putrid Vapours, which may cause a Gangreen.

Q. But suppose the Bone be fractured?

A. Then it is to be reduced, and the Wound dressed with Tereb. Venet. Ol. Terebinth. Hyperic. & Catellor. cum Euphorb. Tutia, &c.: which will both digest the Wound, and help to scale the Bone: but if there is a Comminution of the Bone, (or a Fracture) of the Joint; if you would not be counted ignorant nor careless in your Art, immediately ampurate the Limb.

Q. How, or with what Instruments, are Bullets to

be extracted?

A. If they are lodged in a Bone, the Terebellum is the only Instrument; but if in a slessy Part,

the Ducks-Bills, Crows-Bills, Cranes-Bills, Small and long Forceps, are more proper; and the Patient must be placed as near as may be in the same Posture he was in when the Wound was inflicted. if the Bullet cannot eafily be found otherwise.

Q. Suppose I find it at a contrary Part of the Bo-

dy, and so cannot extract it?

A. Then, if you feel it lying superficially, cut upon it and take it out.

Q. But Suppose I cannot by any Means find it, will

it kill the Patient?

A. Many Men have carried leaden Bullets lodged in their Flesh for many Years, without any manifest Prejudice: however, place the Patient in the Posture he was in when he received the Wound, and try what you can do; for it is certainly best to extract it, if you can.

CHAP. XXXI.

Of Wounds of the Head.

Q. W Hat is principally to be confider'd in Wounds of the Head?

A. The most common are these; (1.) To avert the Humour from the wounded Part. (2.) The general Prognosticks. (3.) To prescribe fit Medicines to assuage Pain and Instammation. (4) Good Rolling.

Q. How is the Humour to be averted?

A. By Purging, Bleeding, and right ordering of the fix Non-naturals.

Q. When is Phlebotomy to be administred?

A. (1.) If the Wound did not sufficiently bleed at first. (2.) If it be large, and the Patient strong. (3.) Feve

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(3.) If an Inflammation has seized the Part, or a Fever the Patient.

Q. In what Cases are you to purge, in Wounds of

the Head?

A. (1.) If there be Head-Ach, or Lumpishness. (2.) If there be Tumor or Inflammation. (3.) If

the Body be Cacochymical.

Q. What is mostly to be shunn'd in these Wounds? A. (1.) All Wine, till fourteen Days are over. (2.) If there is a Fracture, neither Flesh nor Fish is to be allow'd for the first seven Days. (3.) Venery, above all things, during the whole Cure.

Q. What are the Prognosticks in Wounds of the

Head?

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A. (1.) No Wounds of the Head are to be flighted; for sometimes, altho' there is no Fracture, fearful Accidents follow. (2.) It is more hard, or easy, according to the Climate or Season of the Year. (3.) Where there is a Pox, or an ill Habit of Body, it is most difficult. (4.) Contused Wounds of the Head are more difficult than incised Wounds. (5.) Wounds in the Fore-part of the Head, are more dangerous than those of the Hinder-part. (6.) Wounds of the Temples are most dangerous. (7.) Wounds on the Sutures are attended with the same. (8.) If no Fever, Convultion, Raving, Palfy, Doating, Gc. feize the Patient, and good Quittor appear, and the Body be soluble, they are all good Signs, & è contra. (9.) Callus is procured in forty or fifty Days. (10.) If a Swelling does fuddenly vanish, it is an ill Sign, unless some Evacuation has gone before.

Q. Why are contused Wounds more difficult

than incifed ones?

A. Because they require greater Suppuration.

Q. Why are Wounds of the Fore-part, of more dangerous Cure than those of the Hinder-part?

A. (1.)

98 Of Wounds of the Head.

A. (1.) Because more Brain is contain'd in this Part. (2.) The containing Parts are thinner. (3.) Because more noxious Humours may be gathered there, by reason of the multitude of Cells.

Q. Why are Wounds of the Temples so very dan-

gerous?

A. (1.) Because the continual Motion of the lower Jaw doth hinder Union. (2.) Because the Branches of the Jugular Veins and Soporal Arteries are distributed there. (3.) Because of the temporal Muscle, on which the Motion of the lower Jaw depends, and which, being cut thwart, draws the Face awry, and impedes the Motion of the lower Jaw.

Q. Why are Wounds on the Sutures dangerous?

A. (1.) Because the Scull is there parted, and so Matter may fall down and hurt the Brain. (2.) Because of the Ligaments which pass through, from the Meninges to the Pericranium.

Q. How is the Head to be rolled?

A. It is impossible to express it so intelligibly, as that a Stranger should by the Directions exactly perform it; let it be done equally, and with many Circumvolutions, according as the Case requires; the Rollers ought to be made of soft Linen, half worn, of about three Inches broad, or less; and as long as is needful: which Time and Experience will make familiar, and easy to you.



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Of Wounds of the Head in general. 99

CHAP. XXXII.

Of Wounds of the Parts placed above the Scull.

Q. I F a Contusion of the hairy Scalp, without a Wound, present itself, how ought it to be treated?

A. (1.) Immediately bleed. (2.) Use repelling Medicines, which see in the Doctrine of Tumours.

Q. But if after the Pain is gone, a Tumor should remain?

A. Then use Discutients?

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Q. But if notwithstanding all you can do, the Tu-

mor does not vanish, what must be done?

A. Make Incision, and if the Cranium be not foul, conclude the Cure by moderate Compression, and drying and mundifying Medicines, such as Syr. è Ros. Sic. de Absinth. Terebinth. Aloes, Myrrh. &c. And if the Scull be foul, first smooth the Bone with a Raspatory, and endeavour to procure a thin Scale, by Application of Pulv. Myrrh. Gentian. Aristol. Ros. Sarcocol. Mastich. &c. then incarn and cicatrize, as has been taught in other Cases.

Q. How is a transverse Wound of the temporal

Muscle to be dressed?

A. Bring the Lips close together, by stitching the Skin; then dress the Wound with Liniment. Arcai warm, and apply over all Empl. Paracels. a little malaxed with Ol. Hyperic. cum Gum. or some vulnerary Balsam, &c.

Q. But I will suppose the temporal Muscle wounded

according to its Length?

100 Of Wounds of the Head in general.

A. First stop the Bleeding, and stitch the Lips of the Wound, and dress, as I said but now; then lay his Head inclining on a Pillow.

Q. But how will you ftop the Bleeding?

A. If it will not be restrained by ordinary Means, then pass a Needle through the musculous Flesh into the Wound, and from thence to the outward Part, compassing the great Vessels with a double Thread; between which, and the Vessels, put a little Dorsel of Lint, to prevent cutting as funder the Parts, and to avoid Pain; then make Ligation, and dress him up.

Q. Suppose the Wound in any other Part above the

Scull?

A. Then it is to be cured either by Agglutination or Incarnation.

Q. How by Agglutination?

A. First stitch it up uniform, then apply a Pledget dipt in Albumin. Ovi; the next Day dress with Liniment. Arcai warm; and if it yield much Matter, dress it twice a Day, till it is well; which is commonly in four or six Days.

Q. How by Incarnation?

A. If the Bone is bare, apply the Cephalick Powder last mentioned, and over that dry Lint; then fill the Wound with Pledgets dipt in Liniment. Arcai warm, and so conclude the Cure: but the way of Stitching is far better.

Q. How are Humours to be averted from a wound-

ed Head?

A. To prevent Pain and Inflammation, apply a Cataplasm, ex Farin. Hord. boiled in Posca, or Vin. Rub. & Ol. Rosar. or one made ex Medull. Panis, Lac. Recent. Unguent. Popul. Pulv. Croci, &c. which (the Head being shaved, and the Wound artificially dress) is to be apply'd over all.

Q. Suppose a Contusion join'd to a Wound?

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woun except both Symp few A. First wash the Wound with Tinet. Myrrh. or Spir. Vini; and if no loss of Substance, nor the Contusion very great, stitch it, and dress with Liniment. Arcai; (and if it be deep, keep a Tent in the depending Part, until it yields laudable Matter, and then take it out) and apply an Emplaister, or Cataplasm all over.

CHAP. XXXIII. Of a Fracture of the Scull.

A. They are either, (1.) apparent to Sense, or (2.) found out by a reasonable Conjecture. Those of the first fort are manifest to the Eye, or found out by the Finger or Probe; those of the second fort, are a Singing of the Ears, Swooning, Slumbering, Giddiness, an issuing of Blood from the Nose, Ears, and Mouth, Vomiting, Raving; the Patient often puts his Hand to the Part; there is sometimes Convulsions, Palfy of one Side, Faltering of Speech, Memory impaired, Dulness of Judgment, Oc.

Q. Do those Symptoms always attend these sort of

Fractures?

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A. No; for I have known a Patient with a Fracture thro' both the Tables, with the Bone press'd in upon the Dura Mater, (without wounding it) that had none of these Symptoms, except bleeding at the Ears: And another that had both a Fracture and large Fisher, that had no Symptoms of either, except Convulsions for a few Hours only.

Q. But

102 Of Fractures of the Scull.

Q. But suppose none of these Symptoms offer, and yet you suspect a Fracture; by what other Method will

you fatisfy your felf?

A. If the Hair be cut in funder, and flick up in the Wound, or if the Patient upon violently chewing of Paper on both sides of his Jaws, feels a Crushing; or if he holds a Thread with a Knot at the End, hard between his Teeth, and if it be fuddenly jerked, he feels a Pain in the Part, there is then room for Suspicion. Tho' I had once a Patient, who had all the Symptoms of fuch a Fracture, at first; and some of them (at times) for fix Weeks together; yet having no Wound, nor Tumor, whereby to guide me fo as to make Incifion, like an Artist; by Cephalicks, Phlebotomy, Glisters, Vesicatories, Cupping, and proper Topicks, the Patient recovered, and remains still well, for ought I know: But I never heard of the like; and inflance this, to caution you not to be too hafty in making Incision, left you do it, and find neither Fracture, Fissure, nor Depression; and so be justly condemn'd, for Rashness and want of ludgment.

Q. What are your Prognosticks in these Fractures?

A. (1.) Pronounce not all Danger past, till an hundred Days be over. (2.) Every Fracture in the Scull is dangerous. (3.) If a Fever follows, if the Brims of the Wound grow flat at second dreffing, and do not swell, there is danger. (4.) If the Wound grows dry, or is black, the Tongue salters, Memory sails, the Eyes grow dim, a weak Pulse, and Palsy or Convulsion, Death is at hand; but if none of these Signs, then hope the best. (5.) Wounds with a Fracture of the Sinciput, or Fore-part of the Head, are more dangerous than those of the Occiput, or Hinderpart. (6.) Fractures in the Temple Bones are most danger.

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Of the Section of the bairy Scalp, &c.103 dangerous: And (7.) fo are those on the Sutures.

Q. Why are Fractures on the Sinciput worse than

those of the Occiput?

A. (1.) Because these are more thin than the other. (2.) Because more Brain is there contain'd. (3.) Because in the Fore-part, there are several Vaultings, by which the Brain may be easily wounded. (4.) Because of the thinness of the Skin in the Fore-part: And (5.) because there are many and large Veins, which may cause a large Hemorrhage.

Q. Why are Fractures in the Temple-Bones for

dangerous?

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A. (1.) Because these Bones are thin and weak. (2.) Because there are Veins, Arteries, and Nerves. (3.) Because the Pericranium doth clip the temporal Muscle, and the Muscle hath in the middle a Tendon of very great Sense.

Q. Why are Fractures on the Sutures dangerous? A. The Reason is already given, where we discoursed of Wounds of the Parts above the Scull.

CHAP. XXXIV.

Of the Section of the bairy Scalp, and opening the Scull.

Q. TN what Parts of the Head may Section be I Safely made?

A. In all Parts, except the Sutures, and on the temporal Muscles; not on the Sutures, because of the exquisite Sense of those Filaments which tie the Meninges to the Pericranium, and pass thro' the Sutures; and not on the temporal Muscles, for Reafons already given. Q. of

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104 Of the Section of the hairy Scalp,&c.

Q. Of what Form is the Incision to be made?

A. It is generally done in the Form of a St. Andrew's Cross; but it is to be observed, that you be sure to make no transverse Incision a little above the Eye-lid, lest the frontal Muscle being transversely divided, an incurable Palsy of the Eye-lid does ensue; wherefore in those Places the Incision is to be made, either streight or oblique, but not transverse.

Q. When Incision is made, what is to be done next?

A. Begin from the Points of the Incision, and separate the Pericranium from the Cranium, either with your Nails or Spatula, so far as that you can see the whole Fracture plainly; then to the Bone apply dry Lint, and fill up the Incision with Dorfels, arm'd with a Restrictive, to stay the bleeding, and keep the Lips as under; and over all a Boulster: then roll it up, and open it not, till twenty four Hours are past, if you can help it.

Q. Why is the Scull to be opened?

A. (1.) That Pieces of the Weapon may be removed. (2.) That Pieces of the Scull, which are feparated from the whole, may be taken out. (3.) That the depressed Piece, which is thrust down upon, and offends the Meninges, may be taken away, or reduced to its Place. (4.) For removal of Quittor and coagulated Blood.

Q. How much of the Bone is to be taken away?

A. Either all the fractur'd Bone, or part of it. Q. In what Cases is all the fractur'd Bone to be

taken away?

A. (1.) If it be on the Crown, where no depending Vent can be given for discharge of Matter. (2.) All the shivered Bones are to be taken out in any place. (3.) So much is to be taken away, as covering the Dura Mater, becomes black.

Q. What is to be consider'd, when only part of the Bone is to be removed?

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Of the Section of the hairy Scalp,&c. 105

A. That it be done on a depending Part, and that the Trafine, or Trepan, take in part of the found, and part of the fractur'd Bone.

Q. Is there no Exception against this Rule, in open-

ing it in a depending Part?

A. Yes; for if the Brain appear, the Dura and Pia Mater being wounded, it must be shunn'd; because the Brain being stuid, would be apt to fall down to the depending Part.

Q. What are the chief Instruments with which you

open the Scull?

A. They are Raspatories, Levatories, Gimblets called Terebella, and the Trepan, or Trasine.

Q. What is to be observed in the use of Raspatories?

A. Set the Patient in a good Light, stop his Ears, and hold his Head steady, and cover the Brims of the Wound with Pieces of Linen Cloth; then first begin with the broadest, then the less broad, and last of all the narrowest, being often moistened with Oil, or Vinegar and Water, if Blood appear; then dress it up as you do after the Trepan, of which we shall discourse by and by.

Q. In what Cases are Raspatories to be used?

A. In Fissures, or Chinks, and in a Sedes, when the Print of the Weapon is narrow.

Q. What is the Gimblet or Terebellum, and its

use?

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A. It is such an Instrument as Coopers use to raise up the Heads of Casks; its Point is made to screw; its use is to raise up a depressed Piece of Scull, by first making a small Hole with the Pin of the Trepan, and then screwing in this Instrument, and raising up the Bone.

Q. What is the Use of the Levator?

A. To raise up a depress'd Bone, after trasining. Q. In what Parts must the Trasine not be applied?

106 Of the Section of the hairy Scalp, &c.

A. Not wholly upon the Fracture, nor on a Susure, nor to the places a little above the Eye-brows, nor to the Temples, nor to the lower part of the Scull, (if the Meninges be wounded) nor lastly, to the Sinciput of Children not above seven Years old.

Q. What is to be observed in applying this Instru-

ment?

A. (1.) Take out the Pin when you are come to the fecond Table. (2.) Take it often out, and moisten it with Oil. (3.) Take care to cut all Parts equally, so as that you may not be through on one side, when you are not half through on the other. (4.) When it begins to shake, take it out with the Levator. (5.) If any Roughness remain, smooth it.

Q. How is it then to be ordered?

A. First apply a Piece of Tassaty or Sarsnet, (with a Piece of fine Silk fasten'd to it, lest it slip between the Cranium and Dura Mater, and so you lose it) on the Dura Mater, dipt in Mel. Rosar. and Ol. Rosar. or Mel. Ros. & Spir. Vini, or Ol. Ros. & Resin; to the Bone dry Lint, and to the Lips a Digestive; then roll the Head up, and lay the Patient in a quiet Place to rest, free from Noise.

Q. In how long time will the Bone Scale?

A. Some say in forty, others in fifty Days; but indeed, no certain time can be set for it.

Q. Suppose a Depression of the Scull, without a

Wound, in a Child, without any ill Symptom?

A. If the Blood fluctuate up and down under the Skin, then apply to the Part a foft double Linen-Cloth, moisten'd in Ol. Rosar. Alb. Ovi & Aceto; which keep on twenty four Hours, but first remember to shave away the Hair: And after this, until the eleventh Day, apply a Cataplasm, ex Fol. Ros. Rub. Bacc. Myrt. Farin. Hord. & Fabar. Fol. Absinth. Sem. Cymini, &cc. & coq. in Vin. Rub. & adde

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adde Ol. Ros. & Mel. Anglican. Apply this twice a Day warm; and from the eleventh to the twentieth Day, only apply Diapalma, softened with Ol. Lilior.

Q. But if a Fracture in Cranio happen to a Child

with ill Symptoms?

A. Then it is necessary that the Scull be opened; which being done, they are to be treated as Men are, only more tenderly.



CHAP. XXXV.

Of the Cure of Fractures of the Scull appearing in the wounded Part.

Q. W Hat is a Simple Fracture of the Scull?

A. It is when there is no Wound, and when the Fracture is of one only kind.

Q. How many forts of these Simple Fractures are

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A. Three; viz. (1.) Rima, or Fissura, a Chink, or Cleft. (2.) Contusio, a Contusion of the Scull. (3.) Sedes, when the Print of the wounding Instrument is left in the Scull.

Q. Does a Fissure always pass through both Tables

of the Scull?

A. No: fometimes only through the first; and then it is to be so far dilated, to give a discharge to the contused Blood; but if through both Tables, the Dilation is to be accordingly.

Q. But if you distrust that there is a Fissure, yet if it is so small that you cannot see it; how will you find

it out ?

A. If upon the Patient's holding his Breath, and stretching out his Breast, a thin Humour, or bloody

bloody Sanies, do issue out, it is a certain Sign; or if you apply Ink to the Part most suspicious, made thin with Vinegar to make it penetrate, and the next Dressing dry the Scull with a Sponge, and if you see any Print of the Ink to remain in the Scull, you may judge a Fissure to be there.

Q. Are Fissures to have a Trepan apply'd upon

them?

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A. No; unless it has been some time received, and bad Symptoms attend it; but otherwise it is to be dilated with Raspatories, and cured as when the Trasine is applied.

Q. How is a Sedes to be cured?

A. If it pass through both Tables, and no Splinters of Bone prick the Meninges, and the Weapon has made sufficient way for the discharge of Matter, no further Apertion is to be made, but it is to be dressed as when the Trepan is applied; but if any Splinters of the Bone do offend, or the Apertion is too narrow, a further Opening must be made; and if it only pass through the first Table, the Bone is to be smoothed by Raspatories, and dressed with Liniment. Arcai; and it often falls out, where the Patient is of a good Constitution, that the Bone does not scale at all, especially if to the Tinet. Myrrh. some Drops of Spir. C. C. be added, and apply'd to the Bone.

Q. How is a Contusion of the Scull to be cured?

A. The contused Part is to be taken away with Raspatories, and then to be healed as in the latter Part of the Cure of a Sedes is directed.

Q. What is a compound Fracture of the Scull?

A. When to the Solution of Unity there is joined, either Loss of Substance, or some part is removed from its own place.

Q. How many forts are there of it?

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A. Three; (viz.) Depressio, a Depression; Concameratio, a Vaulting; or Excisio, a part of the Scull wholly cut off.

Q. If in a Depression, one part of the Bone cleave to the whole, and the other not, what must be done?

A. Apply the Trepan as near to the fractured part as you can, and then reduce the depressed Bone to its place; or else remove it, as you see most necessary, taking great Care not to hurt the Meninges.

Q. What is Concameratio, or Vaulting?

A. It is when the Scull, being pierced with a sharp-pointed Weapon, and with Violence pulled up again, it sometimes heaves up one Table, and sometimes both, and leaves a Hollowness or Vault underneath.

Q. How is it to be cured?

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A. If it only pass thro' the first Table, smooth it, and proceed, as has been directed; but if it pass thro' both Tables, apply the Trasine on the most depending Part, and proceed as before directed.

Q. How is Excisio to be cured?

A. If the Piece cut away, cleave to the Cutis Musculosa, and the Wound go no deeper than the first Table, the Piece is to be separated from the Flesh, then the Bone to be rasped, and cured as a Sedes: But if both Tables be cut off, and stick to the Cutis Musculosa, first wash the Wound with Spir. Vin. and reduce the Pieces to their place, and stitch the Wound exactly.

Q. What is a Diffolution of a Suture?

A. It is, when those Parts of the Cranium, which are united by the Suture gape, and are separated by some violent Blow or Fall.

Q. What is a Collision of a Suture?

A. It is a Contusion of its Brims, (as I told you before) and of the Ligament which passed thro'it, from the Meninges to the Pericramium, which causeth fearful Symptoms, and which sometimes obligeth us to apply the Trasine on one side the Suture, &c.

Q. Suppose a Fracture under the Temporal Mus-

cle ?

A. If it be with a Puncture, or transverse Wound, it is very dangerous; but if it be long-ways, it is to be dilated by Dorsels of Sponge; and if there be a Fissure, by Raspatories: but if there be a great Fracture or Depression, then make a triangular Incision a little above the Fracture, shunning the temporal Muscle, and the Trepan is to be applied, and the Shivers of Bone to be taken away, and the rest reduced to their place; then dress as before directed.

Q. But how must the Sanies be expell'd out of the

Wound?

A. At every Dreffing cause the Patient to bend down his Head, and to stop his Mouth and Nose, and breathe strongly, to expel it from the Wound; then inject some mundifying Decoction, to wash out all Filth, and dress up secundum artem.

Q. I have heard it confidently reported, and by fome Men affirm'd vehemently, that have had Fractures in Cranio, that the Surgeon who cured them, put in a Piece of Gold, where the Bone came out, and heal-

ed the Wound over it: Pray how can this be?

A. The Patient that believed so, was a Fool; and that Surgeon that pretended to do so, was a Knave; and put the Piece of Gold in his Pocket, and not in the Patient's Scull: The thing is impossible, and more sit for the Creed of an old Woman, than a Surgeon Not but I believe such a thing has been often pretended; and most Coun-

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try People really think so; but it is all a Trick, and Piece of Deceit, unbecoming an honest Surgeon: the Wound not being capable of healing with any extraneous Body in it; for if it was, nothing seems so fit, as the Piece of Scull that was taken out by the Trafine; but it is all a Bite.

CHAP. XXXVI.

Of a Contra-Fissura.

Q. What is a Contra-Fissura?

A. It is when the Cranium is stricken upon one Part, and fractur'd in another; and this either in the self-same Bone, or in divers Bones, as when the right Bregma is struck, and the less by the same Blow is cless; and sometimes when the Blow is upon the upper Table that remains whole, and the lower Table is sissured.

Q. What is the Reason of this?

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A. This happens to those whose Sutures are very obscure and close, in whom, when the Air which is within the Scull, is strongly moved by a Blow, and on every side is driven by the Force of it, it is entirely carried through the Substance of the Brain to the opposite Part, which when it meets with the Scull, which by reason of its sirmness cannot yield, gives way to a Fracture; as a Glass, which sometimes being knocked on one side, is crack'd on the other by the same Blow.

Q. How is this kind of Fracture to be found out?

A. If no Fissure appear in the Wound, and yet there are the Symptoms of a Fracture, then you have reason to take a View of the opposite Part; or if you find a Tumor in the opposite Part, or that

that the Patient often puts his Hand to it, you may suspect a Fracture or Fissure there: But if no Tumor appears to guide you, shave the Head, and apply to the opposite Part this Emplaister, Be Pic. Naval. & Cer. ana Jij. Terebinth. Jj. Mastich. & Irid. pulv. ana Jij. f. Empl. Spread it upon Leather and apply it, and let it lie twenty four Hours; and if when you take it away, any part of the Skin appears more moist than the rest, you may suspect that the Hurt is there.

Q. Suppose the second Table to be fractur'd, the first

remaining whole?

A. Then the Trepan is to be applied, to make way for coagulated Blood.

Q. When the Contra-Fissura is found, what is to

be done?

A. Dilate the Chink with Raspatories, and proceed as before directed.

Q. Suppose a Contusion on the Head without a

Wound?

A. The Symptoms will inform you, if there be a Fracture; which if there be, you must make Incision to come at it; but if there be not, shave off the Hair, and apply a Cataplasm, ex Far. Hord. Acet. Vin. Rub. pulv. Ros. Rub. Bacc. Myrtill. Mastic. Ol. Ros. &c. Then open a Vein, and the next Morning give a gentle Cathartick; also drop into the Ears, and moisten the Passages of the Nose with Ol. Amygd. Dulc. About the seventh Day apply Empl. de Betonica, malaxed with Ol. Ros. And now, if fearful Symptoms begin to appear, let Incision be no longer delay'd.

Q. How will you judge the Dura Mater to be hurt, when you have no Wound, nor apparent Fracture?

A. When there is a Bleeding at the Ears, a Stupidity, and a pricking Pain in the Part when the Patient blows his Nose, Oc.

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CHAP. XXXVII.

Of Wounds in the Meninges and Brain.

How many Inconveniences may happen to the Dura Mater?

A. Five: (viz.) A Wound, Pain, Inflammation, Apostemation, and Discolouration.

Q. Suppose an immoderate Flux of Blood happen in a Wound there?

A. If the Weapon has not made way enough to come to it, it must be made; and apply Pulv. Galeni, to restrain the Flux.

Q. How is Pain to be assuaged here?

A. Use no Narcotick, nor common unctuous mollifying Medicines, but apply Ol. Rosar. & Mel. Rosar. artificially mixed.

Q. Do these fort of Wounds admit of Stitching?

A. No; they are to be cured by Incarnation.
Q. Suppose an Inflammation happen in a Wound on

the Dura Mater?

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A. Bleed, and use a stender Diet, then foment with a Decoction ex Althea, Sem. Lin. & Fænugrec. Fol. Violar. &c. and apply Ol. Rosar. and if occasion be, dilate the Scull.

Q. How is it to be known if Quittor be contained in an Apostemation there?

A. By the extraordinary Whiteness of some

Q. How is it to be opened?

A. Very warily, for fear of offending the Brain; then apply Syr. è Ros. sicc. or Mel. Rosar.

Q. From whence does Discolouration of that part

A. From

A. From the Violence of the Blow; from coagulated Blood; from the Coldness of the Air; by Application of improper Medicines, and from Putrefaction.

Q. Suppose it proceed from the Violence of the Blow?

A. Then apply Ol. & Mel Rosar. or Ol. Ovor. cum Spir. Vin. & Pulv. Croc. q. f.

Q. But what if it proceed from coagulated Blood?

A. Then dress it with a Composition ex Spir. Vin. Mel. Croc. Sarcocol. &c. boiled to blackness.

Q. Suppose bad Applications have been the Cause?

A. Then Medicines of a contrary Quality are to be applied.

Q. How will you know if Blackness proceeds from

Putrefaction?

A. By the strong Smell of the Sanies.

Q. What is then to be used?

A. Such as these artificially compounded and mixt, Spir. Vin. Syr. Absinth. Mel. Ros. Ægyptia. Sarcocol. Myrrh. Aloes, Vin. alb. &c.

Q. What are mortal Signs in this Case?

A. If the Tumor and Putrefraction increases, notwithstanding all that can be done; if the Eyes bunch out, the Patient is restless and raving, you may believe that Death is at hand.

Q. How is Bleeding, and also Wounds to be cured

in the Pia Mater?

A. As those of the Dura Mater.

Q. How many Griefs may happen to the Brain? A. A Wound, Apostemation, Putrefaction, St

deration, Concussion, Fungus and Tumor, by reason of Flatuosity.

Q. What are the Signs of a wounded Brain?

A. A Fever, Vomiting of Choler, Loss of Speech, Slumbering, Stupidity, Dimness of Sight, Giddiness, Foaming, Convulsion; or if the Meninges are both divided, and a Substance like Fat comes the Sc

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out, which will neither swim above the Water, nor melt with the Fire, but is thick, round, and of a marrowy Substance; it is a part of the Brain.

O. Are such Wounds curable or not?

A. Some pretend that they have been so happy as to effect a Cure; and fince it has been done, we are to do our best Endeavours, and leave the Success to God: but at the best they are very dangerous.

Q. Why?

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A. (1.) By reason of the Nobleness of the Part. and the necessary Uses of the Functions of it. (2.) By reason of the Motion of the Brain. (3.) The Moistness. (4.) The Coldness. (5.) The Confent of the Nerves which spring from thence. And (6.) Because Medicines do not easily pass to the wounded Brain.

Q. How are Wounds of the Brain to be cured, if urable?

A. First foment with a Decoction ex Hyperic. Betonic. Calamint. Chamam. Aneth. Euphrag. &c. and hen (till the feventh Day) use Ol. Tereb. & Ol. Rof.

Q. Suppose it be of a livid Colour?

A. Then dress it with Spir. Vin. Ol. Ros. & Mel. Rolar. &c.

Q. Suppose it yields a laudable Matter?

- A. Then use only Syr. Rof. ficc. cum Aq. Vita. r Spir. Vini.
- Q. What Symptoms remain commonly after Wounds the Brain are cured?

A. Faltering of Speech, and Palfy of the Arms.

- Q. How is a Putrefaction and Sideration to be difrned or remedied?
- A. They are not to be discovered but by opencomes B the Scull, and that most commonly when the tient is dead.

Q. What

Q. What think you of a Concussion, or violent

Commotion of the Brain?

A. It is to be dressed as a Fracture of the Scull without a Wound, open a Vein, and inject sharp Glisters; but beware of applying astringent Medicines, because they keep in the fuliginous Vapours, Sometimes a Concussion is attended with the Symptoms of a Fracture, or Fissure; and sometimes it brings Death, if not managed with the utmost Skill and Care; and sometimes even that is all too little to save Life.

Q. What will you do if a Fungus arises?

A. Apply Medicines which strongly dry, and mildly fret, as Pulv. Sabin. Hermodact. ust. Pulv. Turpeth. &c. But nothing so effectual and safe, as a Powder made of common brown Oker two parts, and Powder of Savine one part, mixt and strewed on; it is a Nonsuch, in this case. If it grow up very large above the Cranium, then bind it with a Ligature to procure its fall; but be ware of using Catheretical Means.

Q. How is a Giddiness caused in Wounds of the

Brain?

A. It is caused from the Circulation and Crecumvolution of the Animal Spirits.

Q. How comes Dimness of the Sight and Slumbering

A. From Diffipation of the Animal Spirits.

Q. How is Vomiting caused here?

A. The Brain being troubled, the Affections communicated by the Nerves of the fixth Canjugation, which proceeding from the Brain, are dispersed through the whole Body of the Stomach which is drawn inward, pursued and turn'd up wards, from whence those things which are contained in the Capacity of it, are rejected by vomiting; and Choler being most light, is first vomited up

Q. From whence proceeds a Torpor or Stupidity!

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A. From ill Vapours which assault the Brain and diffipate the Animal Spirits.

Q. From whence comes Convulfion?

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A. From corrupt Vapours, which nip the beginning of the Nerves.

Q. What is to be done in such a Case?

A. Anoint the Neck and Spinalis Medulla with a Composition ex Fol. Rut. Marub. Rorismar. Ebuli, Salvia, Paralys. Bacc. Lauri, Flor. Cham. Melilot. Hyper. macer. in Vin. alb. Dein coq. cum Ol. Lumbricor. Terebinth. Axung. Anseris & Human. &c. ad Consumpt. Vini; tum, Colat. O adde Tereb. Ven. Aq. Vita & Cera, &c.

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C H A P. XXXVIII.

Of Wounds happening to the Instruments of the Senses.

Q. WHY are Wounds of the Eye difficult of Cure?

A. (1.) Because of the Excellency of the Part itself. (2.) Because of its exquisite Sense. (3.) Because of the Consent it hath with the Brain. (4.) Because of the great Flux of Humours falling upon a wounded Eye. (5.) Because of the continued Motion of the Arteries.

Q. What are the Differences of Wounds of the Eye?

A. They are either fuperficial, which pass not through the Cornea; or deep, which do penetrate through it.

Q. What are we principally to observe in the Cure

of these Wounds?

A. (1.) That we use no oily nor fat things. (2.) That when one Eye is wounded, we roll up both.

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both. (3.) That the Head lie high, bending forwards; and the Reasons are: (1.) All oily things inflame the Eye, and cause Pain: And (2.) We roll both Eyes up, because Light, at such a time, is prejudicial to the Eye; and if only one Eye be rolled up, and the other exposed, that which is so exposed moves, and by its Motion causes the wounded Eye to move also; which retards the Cure.

Q. How is Pain to be assuaged in Superficial Wounds

of the Eye?

A. Things of modern use are, Aq. Sperm. Ranar. Rosar. Plantag. Portulac. Pluvial. Mucilag. Sem. Psillii, Tragacanth. Papav. Hyosciam. Decoet. Nuc. Cupress. Balaust. Lac Muliebr. Sang. Turturum & Pullorum, Columb. &c.

Q. How are these to be applied?

A. Unless Matter abound, it will be sufficient (the Eye being shut) to apply them above the Eyelid; and then to the Forehead apply Pulp. Pomor. sub Ciner. cost. Cass. Mucilag. Sem. Pfillii, Cydonior. Far. Hordei. Cribrat. Bol. Arm. &c.

Q. Suppose the Eye-lid and the Tunica Conjunctiva

both wounded?

A. Then great Care is to be taken, that they do not grow together; which may be done by applying Fol. Auri between them.

Q. How is it to be dressed if the Aqueous Hu-

mour comes out ?

A. If it all comes out, the Sight will be loft; but if only Part, not so; especially in Children: and this is cured as a superficial Wound.

Q. But, what think you if the Crystalline and Vi-

treous Humours come out?

A. Then the Sight is of necessity loft.

Q. How is such an Eye to be dressed?

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A. With Lap. Tutia, & Calaminar. Praparat-Ter. Sigillat. Sang. Dracon. Sarcocol. &c. very finely fearced.

Q. How will you dress the Wounds of the Ear?

A. If it be wholly cut off, dress it throughout as other Wounds; if it be only divided, and that but in part, the dry Stitch may serve: but if it be large, a Needle and Silk must be used, taking care to pass it through the Skin [only] and not the Ear, for fear of an Inflammation, Pain and Mortification, and then use strong Desiccatives; and if it reach to the Meatus Auditorius, you must keep the Ear stopt with a Sponge-Tent, to prevent a Fungus and Matter salling in, which might corrupt the Tympanum or Drum, and cause Deafness.

Q. How are Wounds of the Nose to be ordered?

A. If the Wound be simple, what I but now laid down concerning Wounds of the Ear, may be sufficient; but if there be a Fracture, it is to be reduced, and Quills or Pipes kept in the Nostrils, with good Boulsters and Bandage.

Q. How would you dress the Tongue, was it wound-

ed?

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A. If it is wholly cut off, it is not to be restored; but if it be not cut quite off, although it hangs but by a sleshy Thread, you must try to stitch it, and that deep too, that it do not break out again; then cut off the Thread, and use Lotions ex Aq. Plantag. Syr. Myrtil. Ros. sicc. Alum. Roch. Alb. Ovi, &c. and let him hold Sacch. Ros. in his Mouth, and let his Diet be of Jellies and liquid things.



120 Of Wounds of the Throat.

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CHAP. XXXIX.

Of Wounds of the Vessels of the Throat.

Q. What think you of the internal Jugular Vein and Soporal Arteries being wounded?

A. These commonly bring Death.

Q. Why?

A. (1.) Because no good Ligature can be made on these Parts to stop the Bleeding, for fear of choaking the Patient. (2.) Because they immediately deprive a Man of Vital Spirit by the great Flux of Blood.

Q. How then must we attempt to stop the Bleeding?

A. By fit Medicaments, and by Deligation.

Q. What are your Medicaments?

A. Either Restrictive or Escharotical: The Restrictive are these, Aloes, Sang. Drac. Far. Volat. Hypocist. Mastich. Sarcocol. &c. The Escharotical are either such as procure a Crust, or else the actual Cautery; those which procure a Crust, are made of some of the foregoing Powders mixed with Calx Viv. Calcanth. Arsenic. Sublimat. Auripigment, &c. mixt with Alb. Ovi, and applied on Tents and Dorsels, and held hard on, continually by some Stander-by, and not to be removed in less than three Days; and then if the lowermost stick sast, let it alone till it digests off of its own accord, for fear of a fresh Flux of Blood.

Q. But upon Supposition that these Methods prove fruitless, and we are forced to bind the Ends of the

Vessels, how is that to be done?

A. Raise up the Vessels from the Parts to which they adhere, with a small Hook of Silver; then you

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frongly, and cut them afunder between the Deligations; then digeft, incarn, &c. S. A. Using all the time a slender, cooling, glutinous Diet; keep the Body soluble, and rightly order the Nonnaturals, &c.

Q. Suppose one of the recurrent Nerves are cut

asunder?

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A. Then use Balsams made ex Ol. Hyperic. Liniment. Arcai, Bals. Tereb. Bol. Arm. Aloes, Myrrh. Mastich. &c. which will consolidate according to your Desire.

Q. What Accidents follow upon the recurrent

Nerves being cut?

A. If but one be cut a funder, the Voice becomes hoarse; but if both be divided, the Speech is quite taken away.

Q. Why are they called recurrent Nerves?

A. Because they come down from the fixth Pair of Nerves, and return upwards towards the Muscles of the Larynx, using in the left Part, the Trunk of the Aorta, and on the right the Axillar Arteries, as Pulleys.



CHAP. XL. Of Wounds of the Neck.

Q. W Hat Symptoms attend the Aspera Arteria, or Wind-pipe, being wounded?

A. (1.) The Breath comes out at the Wound, (2.) Blood comes out at the Mouth. (3.) The Speech is hindered. (4.) A Cough troubles the Patient.

Q. Are Wounds of the Wind-pipe mortal?

A. Tho' they are not so of themselves, yet by Accident they may become so.

Q. Why?

A. (1.) By reason of their fearful Symptoms, being so near the Jugular Veins, and Soporal Arteries, which are generally wounded with it; it hath also many Branches of the recurrent Nerves, and sundry Muscles. (2.) Because Medicines cannot be kept on. (3.) Blood may fall from the Jugular Veins upon the Lungs, and suffocate the Patient.

Q. How are they to be cured?

A. If they be transverse, the wounded Patient must bend down his Head; but if streight, he is to hold up his Head, that the Brims may be brought close together; then treat it with Needles or Pins, as in a Hair-Lip, because Silk or Thread will rot; then apply Liniment. Arcai, and over all Diapalma malaxed cum Ol. Myrtill. &c. and take care that neither Blood nor Quittor fall upon the Wind-pipe, lest it choak the Patient: and if it be already lodged there, vent must be given to it in the depending Part, and a small Silver Pipe put in, and there kept till the fearful Symptoms are all over.

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Q. Are no internal Means to be used?

A. Yes; make Gargarisms ex Hord. perlat. Flor. Ros. Rub. Balaust. Jujub. Uvar. Pass. Glycyrrhiz. Syr. Myrtin. &c. tho' I cannot see, that they can be of much use.

Q. What are the Signs of the Oesophagus or

Gullet being wounded?

A. (1.) The Meat and Drink will come out at the Wound. (2.) There will be difficulty of Swallowing. (3.) Hiccough and Vomiting. (4.) Fainting and cold Sweats, with Coldness of the Hands and Feet.

Q. What are the Prognosticks in these Wounds?

A. (1.) All these Wounds are of difficult Cure.

1. Because they bring difficulty of Breathing.

2. Because they can hardly be inflicted unless the Aspera Arteria, Jugular Veins, Soporal Arteries, and recurrent Nerves, or some of them, be wounded also. (2.) The smaller the Wound, and the further from the Mouth of the Stomach, the less dangerous, & contra. (3.) If it be wholly divided, the Cure is impossible, because one part slies upwards, and the other contracts downwards.

Q. How are these Wounds to be cured?

A. The first Intention is Stitching, taking care to leave an Orifice in the depending Part, for discharge of Matter, &c. then cure it as Wounds of the Windpipe.

Q. What Diet is to be used?

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are Are A. All his Food must be liquid, and such as will nourish very much, (viz.) New Milk, Almond Milk, with Sacch. Rosat. dissolved in it; Chicken-Broths, Emulsions, Oc.

Q. But suppose the Patient cannot swallow at all?

A. Then nourishing Glisters are to be administred; but first give a purging one, to drive the Excrements out of the Guts: and remember that

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in the nourishing Glisters, you give no Oil, Salt, nor Sugar, because thereby too speedy Expulsion will be caused.

CHAP. XLI. Of Wounds of the Breaft.

Q. What are the Signs of the Lungs being wound-

A. The Blood which comes forth is yellowish and frothy, there is a Cough, and difficulty of Breathing, with a Pain on that side, tho' the Patient is most at ease when he lies on it.

Q. What are the Prognosticks?

A. If the Vena Arteriosa be wounded, they are deadly; and if the Party live, in Wounds of the Lungs, they commonly leave a Fistula.

Q. What are the Signs of a wounded Diaphrag-

ma?

A. There is a heaviness on that Part, a Raving, Ashma, Cough, Pain, and Fever.

Q. What are the Prognosticks?

A. Wounds on the fleshy Part of the Diaphragma are dangerous; and if in the Nervous Parts, certain Death ensues: because in the first case we cannot come to dress them, and they are in continual Motion; and because the Parts within the Breast are easily instam'd; and in the last case, by reason of Instammation, a Delirium, and sometimes a Convulsion follows.

Q. Why are Wounds of this Part so dangerous?

A. (1.) Because it is Membranous, and in continual Motion. (2.) It is nervous, and therefore painful. (3.) Because the *Pericardium* is tied to

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it. (4.) In Wounds of it, the Brain fuffers by reafon of the Nerves, which are inferted in it; the Heart, by reason of its nearness, and the Arteria Phrenica; the Liver by reason of its Conjunction with the Venæ Phrenica. (5.) In Wounds of it, Breathing is hindered. (6.) Because Blood issues into the Cavity of the Breast. (7.) Pain of the Spine reaching to the Shoulder, attended with Cough, Fever, and Raving, Oc.

Q. Suppose the Heart to be wounded?

A. If the Substance of it be wounded, it is to be reckoned deadly.

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A. Because, (1.) It is the beginning of Life. (2.) It is the Laboratory of the vital Spirits. (3.) It is the Shop of the vital Blood. (4.) It is in continual Motion. (5.) It is an hot Entrail, and subject to Inflammation. (6.) Its Substance is compact and dry. (7.) Blood issues out from it into the Cavity of the Breaft, which stifles the Patient.

Q. How will you know that some great Vessel in the

Breast is wounded?

A. By these Signs: (1.) Difficulty of Breathing. (2.) The Fever increasing. (3.) There will be vomiting of Blood. (4.) After the Blood putrifying, the Breath will stink. (5.) A depraved Appetite, a Desire to Vomit, coveting to lie down. and often Fainting, Oc.

Q. Why are Wounds of the Breast in general so

dangerous?

A. (1.) Because of the great Flux of Blood, which cannot be staid, because these Wounds lie deep, and fo will neither admit of Rolling nor proper Applications. (2.) Because the Coats of the Veins and Arteries are Membranous, and cannot be cured by the first Intention. (3.) Because the discharge of Matter is both difficult and dange-

126 Of Wounds of the Breaft.

dangerous. (4.) Because the Blood falling into the Cavity of the Breast, presses down the Diaphragma, causes difficulty of Breathing, and being converted to Quittor, acquires a malignant Nature, and so may cause a Convulsion, Raving, and in time, an Empyema, Pthiss, and hectick Fever, if not Death.

Q. What is the Method of Cure in penetrating

Wounds of the Breast?

A. (1.) Lay the Party in his Bed, with the Orifice of his Wound downwards, and let him endeavour by Coughing, and holding his Breath, to discharge the Blood fallen into the Cavity of the Breast; which being done, dip a Flamula in Alb. Ovi, and put it into the Wound, letting the greatest part hang without it; or instead of a Flamula, a silver or leaden Pipe may be used, dipt in warm Liniment. Arcai, and a Diapalma Plaister over all, with good Boulsters and Rolling, which must be continued till the Wound discharges but a small Quantity of Matter.

Q. What is the longest time required for ordinary

penetrating Wounds here?

A. About Forty Days.

Q. Is the Blood and Quittor to be discharged no way but by the Wound?

A. Yes, both by coughing it up, and by Urine.

- Q. How is it carried from the Cavity of the Breast to the Mouth?
- A. (1.) It is carried into the Pleura, then into the Substance of the Lungs; thence to the Aspera Arteria, and so to the Mouth.

Q. How is it Sent out by Urine?

A. It passes first into the Substance of the Pleura, then into the Vena fine pari, near the Diaphragma, where a Branch of it passes directly to the Emulgents, and so to the Kidneys and Bladder.

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little phra in 'q O. Proceed to the rest of the Cure?

A. The Patient drest, as before directed, if there be Occasion, bleed him, and give him some vulnerary Potion, wherein is Pulv. Rhab. Mummia, Ter. Sigillat, &c. and after this, daily a Decoction ex Sem. Quatuor frigid. Maj. Rad. Fænicul. Petroselin. &c. or a Decoct. Pett. cum Syr. è Quinq. Radicibus, Ros. Simpl. &c. taking zvj. every four Hours; or if Matter offer it self to be purged by Expectoration, then give Aq. Font. cum Aceto warm; and if he coughs with difficulty, give Syr. Tussilag. aut Glycyrrhiz. cum Syr. Acetos.

Q. May no Injections be used?

A. Yes, as the Case may stand; but beware, (1.) That no bitter thing be put into them; and, (2.) That care be taken that all the Injection come out again: and then upon the Flamula or Pipe, lay a Sponge wet in S. V. for the first four or five Days, to keep out the Air, and extract the Matter by a gentle heat. (3.) Use no Pledgets of Lint, lest by Inspiration they be pulled into the Cavity of the Breast, and cause Putrefaction.

Q. How often are penetrating Wounds of the

Breaft to be dressed?

A. According to the small or great Quantity of the Matter, once or twice a Day.

Q. When is it time to suffer the Wound to close?

A. When the Patient breathes freely, finds but little Pain, and no Weight towards the Diaphragma, and the Quittor laudable, and but little in quantity.



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CHAP. XLII.

Of penetrating Wounds of the Abdomen, without any Hurt of the Parts contained.

Q. HOW will you be certain if a Wound of the Abdomen penetrates, or not?

A. If the Omentum, or one of the Intestines start out, or if you inject warm Wine, and it does not return, or if the Probe goes deep straightways, you may judge it penetrates:

Q. What are the Presages in such a Wound?

A. A Wound of the Abdomen not penetrating, is without danger, unless it be extraordinary large.

(2.) A Wound on the middle Part is more dangerous than one on the sides.

(3.) All penetrating Wounds are dangerous.

(4.) If any of the contained remarkable Parts are wounded, it commonly proves deadly.

Q. Why are all penetrating Wounds there dange-

rous ?

A. (1.) Because they are mostly large, and always deep. (2.) Because the Air hurts the Intestines. And, (3.) because the Quittor falls into the Cavity.

Q. How are we to proceed in the Cure?

A. If any Part start out, it is to be restored either by your Hand; or if it has long hung out, and is tumissed, it is to be done by a Fomentation ex Flor. Cham. Melilot. Anethi, Pulegii, Tanaset. Lavendul. Absinth. Bacc. Lauri, Sem. Cymini, Anisi, &c. decocted in Vin. Rub. vel Latte: and if after reasonable Fomentation you cannot restore it, the Wound is to be enlarged, to make way for it.

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Of penetrating Wounds of the Belly. 129

Q. If by reason of long continuing in the cold Air, the Omentum be cooled, hardned or livid, what must be done with it?

A. Then tye it near to the found Part, and cut the corrupt Part away, letting the Thread hang out, till the corrupt Part separates from the whole.

Q. Why must Ligature be made in this Case?

A. Because otherwise much Blood would fall into the Cavity of the Abdomen.

Q. The Omentum being restored, how are these

Wounds to be stitched?

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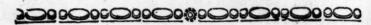
A. Having a clear Light, and a good Affistant to hold up the Parts, you must lay the Patient on the fide opposite to the Wound, that the Guts be not in your way; then take a good Needle fit for the Purpose, well armed with a good waxed Thread; and then, first, the Needle is to be thrust thro' the Skin and the Muscles, even to the Peritonæum, not touching it on that side; then from within outwards the Needle is to be thrust thro' both the Peritonaum and Muscles of the opposite side; then at an Inch distance, the Needle is to be passed thro' the Muscles of the same side, leaving the Peritonaum, and afterwards from within outwards, it is to be passed thro' the Peritonaum and Muscles, and to proceed, sometimes piercing the Peritonaum, and sometimes forbearing it, till you have sufficiently stitched the Wound, which ought to be strengthened by the dry Stitch, because in a lew days the Thread will cut the Brims afunder.

Q. What Topick will you then apply?

A. All vulnerary Balfams, and agglutinative Emplaisters, are proper; as Balf. Lucatel. Linim. Arcai, Ol. Hyperic. cum Gum. Ol. Tereb. Sarcocol. Mastich. &c. mixed; and over all, Empl. Paracelf. of ad Hern. mixed; and to prevent Pain, embrocate all the Parts about with Ol. Rosar. But remember

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remember to leave an Opening in the depending Part, for the discharge of Matter, which otherwise would collect, and cause sad Accidents.



CHAP. XLIII.

Of Wounds of the Parts appointed for Chylification.

A. The Wound is under the Cartilago Enfiformis, from whence Chyle comes forth; also there is Hiccough, vomiting of Choler, and whatever is taken in by the Mouth; the Pulse grows weak, thin Sweats, and the Extremities of the Body grow cold, Oc.

Q. What are the Prognosticks?

A. If they are superficial, they are of easy Cure; but if they are penetrating, and towards the bottom of the Stomach, they are deadly.

Q. What do you mean by that word deadly?

A. (1.) In a strict Sense, that which brings inevitable Death. (2.) In a more lax Sense, that which most commonly brings Death.

Q. Why are they so dangerous?

A. (1.) Because it is of a Membranous Substance.
(2.) The Brims of the Wound cannot be kept together by Ligature. (3.) Vulnerary Potions slip out of it. (4.) Meat and Drink keep as funder the Brims. And, (5.) it is a very sensible Part.

Q. How are Wounds of the Stomach to be cured, if

at all curable?

A. The Tent must not enter the Stomach; only it is to keep open the Parts lying above it; let it be armed with Tereb. Ven. lst. cum Vitel. Ovi, &c.

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and outwardly embrocate with Ol. Rofar, & Myrtil. and give him inwardly Syr. Cydonior. vel Granat. in Aq. Plantag. or Vinc. per Vinc. and let him eat and drink very sparingly.

Q. What are the Signs of the small Guts being

wounded?

A. The Chyle comes out at the Wound, the Flanks swell, the Patient vomits Choler, and has the Hiccough, with great Gripings in the Belly.

Q. Which are most dangerous being wounded? and

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A. Wounds of the small ones are most dangerous; because they are more nervous, and of a more exquisite Sense, are nearer to the Stomach, and have more Mesaraical Veins, besides they difiribute the Chyle, and more refine it, and their Substance is more thin, and not so readily admit of Agglutination as the great Guts do.

Q. What are the Presages in these Wounds?

A. Those of the small Guts prove most commonly mortal; and amongst these, Wounds of the Jejunum are the worst.

Q. How are these Wounds to be cured, if curable? A. If the Gut be not got without the Wound,

it must be gently drawn out, and stitched with the Glover's Stitch, with Thread not waxed; then foment it with warm Red Wine, and reduce it to its place, strowing over it Pulv. Sarcocol. Myrrh. &c. and then the external Wound is to be flitched and dressed as has been taught in the Chapter of penetrating Wounds of the Abdomen. Then left the Excrements should barden, feed the Patient with moistening Meats; and as you see occasion, give him emollient Glisters: But here is no necessity for vulnerary Drinks.

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CHAP. XLIV.

Of Wounds of the Liver, Spleen, Kidneys, Emulgent Vein, Artery and Bladder.

Q. What are the Signs of a wounded Liver?

A. A great Flux of the Blood on the right fide, and the fide drawn towards the Spine; the Patient delights to lie upon his Belly, the Scapula stretched, and pricking Pains even to the Neck; they have a Fever, and sometimes void Blood by Urine, &c.

Q. What are the Prognosticks?

A. (1.) If these Wounds are superficial, they admit of Cure; if deep, not. (2.) If cold faint Sweats seize the Patient, and he thereupon grows weak, Death is at hand.

Q. Why are deep Wounds here mortal?

A. (1.) There is a great Flux of Blood. (2.) Inflammation. (3.) Vulnerary Potions lose much of their Energy before they can reach the Part. (4.) It lies so deep, that Medicines cannot well be applied. (5.) Matter cannot be discharged, and so the whole Liver may be corrupted, from whence Sanguisication is hindered, and a Confumption or Dropsy procured, \mathcal{O}_c .

Q. What is to be done, if you are called to dress

fuch a Wound?

A. Dissolve astringent Troches in Aq. Plantag. or Bursa Pastoris cum Syr. Ros. ficc. Myrtil. O Granat. &c. and give inwardly vulnerary Drinks, &c.

Q. What are the Signs of a wounded Spleen?

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Of Wounds of the Liver, &c. 133

A. Black Blood flows from the left fide; the Side and Stomach become hard; Thirst increases, and the Pain reaches to the Neck.

Q. What are the Presages in this Case?

A. Some affirm that the whole Spleen may be taken out, and the Patient live; tho' it is certain that deep Wounds of it are for the most part deadly; or at best, the Body becomes ill affected, so that Dropsy, Scabs, and such Diseases may seize it.

Q. Why do Wounds of it commonly prove mortal?

A. (1.) Because a great Flux of both Venal and Arterial Blood doth follow. (2.) It is a part helping Sanguistation, and being wounded, is obstructed in the Performance of its Duty. (3.) It is easily inflamed. (4.) Because it hath a great consent with the Heart, by Communication of the Arteries; by which (from the Quittor and putrify'd Blood) noisome Vapours may be sent to the Heart.

Q. How are these Wounds cured?

A. As Wounds of the Liver.

Q. What are the Signs if the Kidneys are wounded?

A. If it reach to the Pelvis, clotted Blood will come forth by Urine; there will be a great Pain in the Part, which will reach to the Groin and Testicles.

Q. What are the Prognofticks?

A. (1.) If the Wound be received through the Back, it is mortal. (2.) If it be received by the Side, and pierce no further than the Caruncula Papillares, it may be cured, but with much Difficulty. (3.) If it pierce to the Pelvis, it is most commonly deadly.

Q. Why do Wounds of the Kidneys, received by

the Back, prove mortal?

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134 Of Wounds of the Liver, &c.

A. Because the Wound must pierce the Psoa, and the Nerves springing therefrom, the Spinalis Medulla can hardly escape.

Q. Why are these Wounds of difficult Cure, the penetrating no farther than to the Carunculæ Papilla-

res à

A. Because both the Muscles of the Belly and the Peritonzum must be wounded also, between whose Membranes the Kidneys are wrapped.

Q. Why do the Wounds prove mortal, if they reach

the Pelvis?

A. (1.) Because the draining of the Serosity from the Veins and Arteries, is so very necessary, otherwise it would hinder the Union of the Wound. (2.) Because the Substance of it being very compast, does very difficultly admit of Consolidation.

Q. Suppose the Emulgent Vein and Artery be

wounded?

A. Then Death may be expected, because of the desperate Flux of Blood which will ensue; nevertheless the Cure may be attempted by healing Injections, and giving inwardly vulnerary Potions, or Lac recent. in which dissolve Sacc. Rosat. Troch. Alkekengi cum Opio, or fine Opio, as your Judgment directs you.

Q. What are the Signs of a wounded Bladder?

A. (1.) The Urine comes bloody and sparingly. (2.) If the Urine falls into the Cavity of the Abdomen, it will seem to be an Ascites, and the Pain will be sent to the Groins and Testicles.

Q. What are the Prognofticks?

A. (1.) Wounds in the fleshy part of the Neck of the Bladder may be cured; as may those in the sides of the Groin, if the Patient be young. (2.) Wounds in the Membranous Parts of the Bladder are incurable, because the Bladder is nervous, thin, and has but little Blood, it is apt to mortify; the

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the Acrimony of the Urine will not fuffer the Wound to heal; and it is attended with dreadful Symptoms.

Q. How are these Wounds to be cured, if curable?

A. (1.) Admit of no cold Water to be drank-(2.) Give vulnerary Potions, in which dissolve Syr. Ros. ficc. Mel Rosar. Gum. Tragacanth, &c. and to the Wound apply Tereb. Cypr. Ol. Over. Vitel. Ovi, &c.

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CHAP. XLV.

Of Wounds of the Nervous Parts.

Q. What do you intend here, when you speak of Wounds of the Nervous Parts?

A. I mean Nerves, Tendons, and Ligaments.

Q. By what Signs will you know a Nerve to be wounded?

A. (1.) By the Part; if many and great Nerves be in the place wounded, or that pass by it. (2.) Pulsation, Raving, Convulsion, Inflammation, Mortification, &c.

Q. What are the common Accidents happening to

Nerves?

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A. A Puncture, an Incision, a Contusion, and Distortion.

Q. What are the Prognosticks in Wounds of the Nerves?

A. All Wounds of the Nerves are dangerous.

Q. Why?

A. (1.) Because the Membrane, with which they are covered, proceeding from the Meninges, K 4 makes

makes them exquisitely sensible, and they are filled with Animal Spirits. (2.) Because of their consent with the Brain and the Spinalis Medulla. (3.) By reason of the fearful Symptoms which follow.

Q. What are the general Indications of Cure?

A. (1.) To prevent the Flux of Humours, breathe a Vein, and give gentle Catharticks. (2.) Use a very slender Diet. (3.) Let the Air be warm. (4.) Use all your Applications warm.

Q. How will you know when the Heat of the Medi-

cine is proportioned to that of the Part?

A. (1.) If the Patient, upon the Application, feel a pleasant Heat. (2.) If the Part is possessed with a pleasant Itching; but if the Party feel either no Heat at all, or too much, upon the Application of the Medicine, it is not as it ought to be.

Q. How is a Puncture of a Nerve to be cured?

A. By Medicines hot, dry, and of subtle parts, to digest, attract, and dry the Putrefaction; (viz.) Ol. Tereb. Spir. Vini, Euphorb. Ol. Rosar. cum Sal. Com. &c.

Q. But what will you do, if Symptoms do not abate

upon these Applications?

A. Then make cross Incision of the Skin, that Medicines may have their due Energy on the punctur'd Part, when perhaps it may be necessary to compound your Applications in milder forms.

Q. Which is least dangerous, a Nerve quite divi-

ded, or only cut partly through?

A. That quite divided.

Q. Why So?

A. Because then it cannot send any Harm to the Brain; but the Use of the Part is for ever lost.

Q. How are Such Wounds to be cured?

A. The Topicks must be dry, and but very little biting, as Unguent. de Calce lot. &c. and by Sarcoticks,

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Sartocicks, fuch as in our Conference have been often repeated.

Q. How must it be drest, if but in part divi-

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A. As directed already at the beginning. Q. But if Symptoms do not abate, how then?

A. Then, (rather than to expose the Patient to the Danger of Death) it will be best, quite to divide it; then to use Anodyne, and drying Medicines, with Fomentations, Cataplasms, &c. formerly prescribed.

Q. Suppose the Nerve to be contused, or bruised?

A. If there is no Solution of Unity, embrocate with Ol. Lumbricor. & Terebinth. hot, and apply Empl. Still. Paracelf. malaxed with Ol. Hyper. Comp. &c. spread on Leather.

Q Suppose a Distortion of the Nerve, which hin-

ders the Motion of the Part?

A. Embrocate cum Unguent. Nervin. & Ol. Terebinth. and apply a Cerat. ex Empl. è Mucilag. & Gum. Ammoniac. &c.

Q. But what must be done, if after this, a Hard-

ness and Numbness of the Part remains?

A. Embrocate with Ol. ex Pedibus Bovin. Lil. alb. Adeps Anseris, & Gum. Bdellii, cum Mucilag. ex Rad. Althea, Sem. Lini & Fænugrec. warm, and over the Part apply Empl. Diach. cum Gum. softened with liquid Storax, &c.

Q. What must be done when an Inflammation at-

tends a wounded Nerve?

A. Embrocate cum Ol. Sambucin. & Acet. Rosat. and over all apply a Cataplasm ex Far. Hord. Orobi, Oximel. &c.

Q. What must be done to abate Pain?

A. Bleed, purge, use a spare Diet, and apply a Cataplasm ex Far. Fabar. Fol. Malv. & Violar.

lar. colt. in Latte. recent. cum Unguent. Populeon, &c.

Q. Suppose a Convulfion Seize the Part?

A. Embrocate the Spine and wounded Member cum Ol. Cham. Lavendul. Succini, Rorismarin. &c. hot, and apply to the Member the inside of a Sheep's-Skin, newly killed.

Q. How will you know if a Tendon be wound-

ed?

A. (1.) If the Wound be near the Joint. (2.) If it be in a Part that is not fleshy, Oc.

Q. What are the Indications of Cure?

A. The same as those in a wounded Nerve.

Q. How are wounded Ligaments to be cured?

A. By Medicines drying, and not too hot, Ol. Mastich. Balf. Natural. and consolidating Powders.



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CHAP. XLVI. Of Wounds of the Joints.

Q. I OW are the Wounds of the Joints to be cured?

A. If it be a Puncture, it is to be managed as a Puncture in a Nerve or Tendon; but if it be by Incision, they are to be stitched, leaving a Place for discharge of Matter in a depending Part; and let all your Applications be very drying, and applied hot, Liniment. Arcai, Pulv. Myrrh. Sarcocol. Mastich. Aloes, &c. and over all apply a Cataplasm ex Far. Hord. & Fabar. Flor. Cham. Melilot. Acet. Sambuc. Ol. Rof. Popul. &c.

Q. What is to be confidered in these Wounds?

A. Chiefly the due Position of a Member, that it may not be kept in fuch a Posture, as that the Limb may be useless when the Wound is healed.

Q. How is that?

A. (1.) If the upper part of the Shoulder be wounded, put a large Boulster to the Arm-pit, and carry the Arm in a Scarf. (2.) If the lower part of the Arm be wounded, carry it in a Posture between Extension and Contraction; and when the Lips unite, use a moderate Motion of the Limbs. (3.) If the Joint of the Elbow be wounded, take care that it may not be too much contracted nor extended. (4.) If the Wrists or Joints of the Fingers be wounded, keep them half shur, moving a Ball in the Palm of the Hand; otherwise they may prove useless when the Wound is healed.

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Of Amputation.

Q. WHY is Amputation performed?

A. To preserve the Life of the Patient, which otherwise would be lost.—Immedicabile ense rescidendum est.

Q. When is it to be done?

A. When there is no Possibility of staying the Mortification, or saving the Life and Limb without it.

O. In what Part is it to be made?

A. If in the Arm or Thigh, it is to be as near the Wrist or Knee as possible; but let it be where it will in the Leg, your way is to take it off about three or four Inches below the Knee; for a long Stump of the Leg is both troublesome and unfeemly.

Q. How is it to be performed?

A. Place the Patient to your mind, having fufficient Help to affift you, let one of your Affiftants draw up the Muscles very tight; then about two or three Fingers breadth above where you design to take off the Limb, make a very hard Ligature, and a Hand's breadth above that, make another slack; which must be turned about with a short Stick, (which is called a Batoon, or a Tunniken,) till it numbs the Part; then let one Assistant hold the upper Parr, and another the lower Part of the Limb steady; then (standing within side of the Limb) with two Stroaks of your difmembring Knife, divide the Flesh, (and with the back of it, the Periosteum) and then as near to the upper

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upper Part as possible, with your Saw, take off the Bone, with as few Stroaks as you can; (remembring, that if there be two Bones, as below the Elbow and in the Leg, that you first divide between them with your Catling.) Then take Dorfels, being first armed with your Restrictive, and then dipt in scalding hot Ol. Terebinth. and apply to the Mouths of the Vessels; to the Bone a Pledget of dry Lint, and to the Stump two large Pledgets, one larger than the other, yet both fo big as will cover all the Stump, armed with Pulv. Restring. maj. made soft with Alb. Ovi. & Acetum; all which keep hard on with your Hand, till your Affistant looses the first Ligature, and shoves down the Muscles over the Stump. Then over all pull on an Ox-Bladder, and over that a crofs Cloth hauled up torte, to keep all on firm; then with a fingle Roller make feveral Turns about the crofs Cloth, rolling fometimes upwards and fometimes downwards till all be used. Then with a doubleheaded Roller, roll all the Dreffings on equally to the Stump, taking care, that it be neither too flack nor too torte; (for the first would not restrain the Hemorrhage, and the second would cause Pain. Inflammation and Mortification.) Then take off that Ligature belonging to the Batoon, or at least, flacken it; and so put your Patient into his Bed. with his Stump raifed, and some one to fit by him, to apply their Hand to it, till the Dreffings dry on.

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Q. Suppose you amputate for a Mortification?

A. If possible, take it off two Fingers breadth above the Mortification; or if it so happens that you cannot, then after the Limb is off, you must apply to the Stump actual Cauteries, to dry up the Humidity, and recall the Spirits to the Parts; and then dress it up S. A.

Q. Is there no other way to ftop Bleeding, but Ol.

Terebinth. and the actual Cautery?

A. Yes; Many make Ligature on the Ends of the Vessels; and if you amputate where there are great Vessels, it will be convenient, instead of Dorsels, to have Buttons made of Tow, armed with a Restrictive, and dipt in hot Ol. Tereb. and so apply them, and dress up the Stump as before directed, having first made the cross Stitch, which will help to stop the Flux of Blood, and make a round handsome Stump also: And indeed, the cross Stitch is a more quick way than to take up the Arteries, and full as secure: For in all the Sea-Fights which I have been in, (which have been pretty many) I never used any other Method, and never had any Hemorrhage attending, nor succeeding it.

Q. When is it to be opened again?

A. Not till the third or fourth Day; but in the Interim, you are to see that it does not bleed, and ease the Bandage, if there be occasion.

Q. How is it to be dressed the first Dressing?

A. Have in readiness some warm Water and a Sponge, to soften the Dressings, that they may be taken off, without causing a new Flux; which done, wipe it clean, and apply a dry Pledget to the Bone; and to the Stump, Pledgets armed either with Basilicon, or a Digestive ex Tereb. Ven. Vitel. Ovi, Far. Tritic. Ol. Catellor. or Lumbricor. & Croc. then with a Pledget of dry Tow over all, with a cross Cloth and double-headed Roller, lay him by for that time.

Q. And how then?

A. The next Day have in a readiness a good Fomentation, in which let Stupes be wrung out scalding hot, and so applied for half an Hour together; then dress it up as you did the Day before,

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Of a Gangrena or Mortification. 143

fore, and so continue till the Wound is well digested; every Day dipping the Pledgets in Spir. Vini warm; and then cure it as other Wounds of the sleshy Parts, taking care to prevent a Fever, or ill Accidents.

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CHAP. XLVIII.

Of a Gangrena or Mortification.

Q. What is a Mortification?

A. It is when the natural Heat of a Limb is in part extinguished; the Limb is discoloured, cold, and in part insensible.

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A. It is when the natural Heat is wholly extinct, the Limb is dead, livid, veficated, quite infenfible, and fætid.

Q. What is to be done in this Cafe?

A. Amputation without delay.

Q. But suppose it is only a Mortification?

A. Then scarrify the Part till it bleeds, and the Patient feels it; then apply scalding hot Stupes for half an Hour, wrung out of a strong Fomentation, wherein is put a quantity of S. V. or Brandy; and to the Scarrifications apply either Ol. Terebinth. scalding hot, or Spir. Vin. & Eygptiac. and dress it twice a Day, till the Mortisication stops, the Sloughs separate, and the Scarrifications digest; then mundify, incarn and cicatrize, as in other Cases.

CHAP. XLIX.

Of Fractures in general and particular.

Q. What is a Fracture?

A. It is a Solution of Unity in a Bone, arising from some violent external Cause; it is called in Greek Katayua.

Q. How is a Fracture made?

A. Three ways; viz. (1.) Transverse, as when a Stick is broke short off. (2.) Streight, when the Bone is split up and down like a Plank. (3.) Oblique, when it is compounded of both the former.

Q. How will you know when a Bone is fractur'd?

A. (1.) By the crackling of the Bones as you handle the Part. (2.) By the violent Pain in the Part, if it be handled. (3.) Commonly there is a Prominence or bunching out. (4.) The Limb

is without Strength, and useless, and sometimes there is a Shortness in it; but these are Signs attending the Tranverse and Oblique Fracture only.

Q. How will you know when it is split lengthways?

A. The Part is thicker than naturally it should

be, with Pain and Unevenness, Oc.

Q. How many forts of Fractures are there?

A. Two; (viz.) Simple and Compound; the one is without a Wound, and the other ever attended with one.

Q. Which are attended with most danger?

A. The Compound ones without dispute, and those again in the great Bones, and near the Joints.

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Q. How many Intentions of Cure are there in a

Simple Fracture?

A. Five; viz. (1.) To put the fractur'd Bones exactly together again; which is done by Extension and Reduction. (2.) To keep the Parts so put together in their right places. (3.) To manage the Cure as it ought. (4.) To endeavour to breed a Callus. (5.) To correct ill Accidents.

Q. What Damage comes by not making right Ex-

tenfion?

A. If it be more violent than it should, it causes Fevers, Pain and Convulsions, and sometimes Passies; and if it be less than it should, the Shivers of Bone will rub one against another, and break, and so by their pricking on the Nervous Parts cause Pain; but the bigger the Bone, the more violent Extension ought to be.

Q. How is the Operation to be performed?

A. Either by the Surgeon's Hand alone, (as in young Children) or by Pulleys, as in very ftrong Bodies, or where the Fracture has remained long unreduced; or by two Affistants, the one holding the upper, and the other the lower Part of the Limb, and so making due Extension, till the Surgeon with his Hands gently and exactly reduces the fractur'd Bones.

Q. How will you know when the Bone is well re-

duced?

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A. If compared with the found Limb, it be found to be uniform with it; or if no Hollownels nor Inequality remain in the Part, and if Pain be abated, these are all good and certain Signs.

Q. How are the Parts of the broken Bone to be keps

united?

A. Having reduced the Fracture, apply all round it, either Empl. è Bolo, or Bol. ver. & Posca, made into the form of a Liniment, and spread up-

146 Of Fractures in general.

on a foft Cloth; which simple Composition alone is of more Effect to ease Pain, prevent Inflammation and a Flux of Humours to the Part, than any Medicine what soever that I ever yet met with, however pompous the Title may be. Then with a Linen Roller dipt in Posca, take three or four Turns round the Fracture, and from thence roll upwards as far as you fee convenient, and fo downwards again to the Fracture; then to that part of the Fracture which bunched out, apply a Boulster dipt in Posca, and then with a doubleheaded Roller take a Turn or two about the Fracture, and so pass one part upwards and the other downwards, till you have spent it all; and then round the Limb, (with three Pieces of Tape) tye (pretty hard on) as many Splints of good Pastboard, armed at the Ends, as will compais the Part: and then bleed the Patient, and lay him in his Bed; as easy as you can, and his Leg in a Case, made for that purpose, to keep it firm, and every thing hollow from it; keep his Body foluble, and him to a spare Diet.

Q. How will you know if the Bandage be good?

A. (1.) By the Patient's Ease. (2.) If the next Day, a loose small Tumor appear in the extreme Part, the Bandage is good; and on the contrary, if no Swelling appear, or a great and hard one, it is bad: for the first shews that the Fracture is not kept so hard rolled as it ought, and the latter causes Instammation.

Q. When are Dreffings to be taken off?

A. Not till the feventh Day, except you fee absolute Necessity.

Q. How is it then to be managed?

A. If you find all things well, embrocate with Ol. Rosar. and apply a Cerecloth, ex Empl. Diapal. ad Herniam & Paracels. and roll it up as at first; only

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only first remember, that if it is possessed with a troublesome Itching, let it be bathed in warm Water; by which Method, the Tone of the Part will be preserved, and the Substance of the Bone kept sound, if rightly followed.

Q. When do you endeavour to breed Callus?

A. About the seventh Day. Q. Of what is Callus bred?

A. Of the Nourishment of the Bone, ouzing out of the Edges of the Fracture, which grows hard about the fractur'd Ends; and though it is not Bone, yet it is so hard, that it will sooner break in any other part, than where the Callus is bred.

Q. What are the Indications here?

A. (1.) To supply fit Matter. (2.) To keep it from being washed away from the Edges of the Fracture.

Q. How is fit Matter to be Supplied?

A. The Food must be thick and viscid. Rice, Wheat, Feet and Heads of Calves and Sheep, and Neats; and that by degrees in a larger Latitude. Some give inwardly Osteocolla; let your Applications be implastick, and your Bandage not too hard.

Q. How will you know when Bandage is less or

greater than it should be?

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A. If it is less than it should be, if you touch the Part, little or no Callus is felt, and the Part is weak in Motion, & contra.

Q. How is want of Callus to be remedied?

A. Greater Liberty in Diet must be allowed, the Astringents must be more gentle, the Bandage must be slacken'd, and the Part must be bathed with warm Water, till it looks red and swell; and if there is too much Callus, the contrary Course is to be taken.

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148 Of Fractures in general.

Q. Suppose that by over-streight Rolling, &c. the

Limb grows small?

A. The Patient must be nourished, and Plaisters of Pitch applied, and hastily pulled off again feveral times one after another, that the pulling off the Hair may cause Pain, and so attract Nourishment to the Part; and then pour warm Water upon it, &c.

Q. Suppose that after the Fracture is cured, the

Limb is not in its right Figure?

A. If the Limb be not hurt in its Motion, or if the Callus be old, and the Patient weak, and old too, he must be satisfied without striving any further; but if he be young and strong, and the Callus new, the only way is to break the Fracture again.

Q. How is that to be done?

A. For several Days bathe the Part with a Decoction of Althea, Malva, &c. boiled in Neats-Foot Broth, and apply Empl. è Cicuta, cum Axung. Porcin. and then with Strength of Hand break the Bone again, (laying it upon some hollow place) then reduce it as it ought, and cure it as other Fractures.

Q. Tell me how particular Fractures are to be reduced?

A. The Operation is so alike in all Fractures, that it is almost needless to mention Particulars; however, take these few Instructions. If the Clavicle or Collar-Bone be broke, let an Assistant stand behind the Patient, and take hold of both his Shoulders, and pull them back, whilst he presses with his Knee between the two Scapula's forwards, and then you may easily reduce it with your Hands. If a Rib be broke, the Patient must be laid thwart a Cask, or some other thin convex thing, with his well Side downwards. And if the Os Femoris

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Of Fractures in particular. 149

or Thigh-Bone be broke, take care you are not deceived; for the Bone is naturally crooked in all, as may be feen in every Skeleton; and the Part being very fleshy, the Bone is with difficulty kept in its place.

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Q. Suppose the Patella or Knee-Pan be fractur'd? A. This feldom happens; but if you meet with fuch an Accident, and it be broke transverse, a) Lameness will attend the Patient so long as he lives; but if the Fracture be right up and down, not so, (if it be well managed.) And the Reason is plain, for if the Fracture is transverse, the seventh, eighth, and ninth Muscles drawing upwards, and the Tendon inferted in the Patella drawing downwards, it is almost impossible that the Patella should ever be joined as it ought; but in a Fracture there, right up and down, the Ends of the feventh, eighth, and ninch Muscles that move the Leg, meeting about the Patella, and ending in a strong Tendon, which involving the Patella, the Fracture is apt to close of itself, and so remain. However, if either of them happens, use all your Art to reduce it, and by Boulsters and good Bandage to keep it in its place, and cure it as other Fractures, Oc.



CHAP. L 3

150 Of a Compound Fracture.

CHAP. L. Of a Compound Fracture.

Q. HOW is a Compound Fracture to be managed, where neither the Bone is made bare, nor do

we look for any Piece of Bone to come away?

A. First reduce the Fracture as is before taught. (2.) Bring the Lips of the Wound together, and stitch them. (3.) To all the Fracture apply Astringents and Glutinatives; and to the Wound, if there is no Bleeding, only a Pledget dipt in Vin. Rub. & Ol. Rofar. and over that the nine or fifteen tailed Bandage, whose Ends are to lay over one another on the Wound, and be pulled indifferent tight; then over that, Slips of Linen Cloth, fix or eight double, laid right up and down at about a Finger's breadth distance one from another, quite round the Limb, except upon the Wound; and over every one of them, Splints of Pastboard tied on with three Tapes, one above and the other below the Wound, and the third fo contrived that the Wound may be drest without untying the other two, or moving the Limb: and this must be tied not any ways hard. Then if need be, bleed; keep the Patient to a thin Diet, and his Body foluble; dress the Wound every Day, digest, mundify, incarn, Oc. as in other Wounds.

Q. Suppose the Bone is not made bare, yet we look

for a Piece of the Bone to come away?

A. (1.) If any Piece be loose in the Wound, take it away immediately; but if it sticks fast, use no Violence to it. (2.) Give free discharge to the Matter, and let not the Bandage be too hard.

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Par app in C hard. (3) Dip all the Bandages in Vin. Rub. & Ol. Ros. (4) When the Inflammation is over, use all your Endeavours, that the Bone may be thrust forth, which Nature will in time do; but it may be helped by Medicines, as Cera, Citr. Euphorb. Rad Aristol. or Tint. Myrrh.

Q. But suppose the Bone be made bare?

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oo d. A. If no Pieces are separated, reduce it and defend it from the Air, and proceed as before taught, (in a Compound Fracture where the Bone is not made bare) only remember, not to use any oily or fat Applications, &c.

Q. Suppose the Ends of the two Bones lie over one another, so that you cannot by any means reduce them?

A. Then you are to faw off one of the Ends, and reduce them, and proceed as is already directed.

Q. How will you do if a Mortification seizes the Part?

A. Take off all the Dreffings, fcarrify, and apply hot Stupes, and proceed as L before taught in Chap. XLVIII.

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CHAP. LI.

Of Dislocations in general.

Q. W Hat is a Diflocation?

A. Diflocation, Luxation, or slipping out of Joint, is when the Head of some Bone is forced out of its own proper Sinus into another place.

Q. How many forts of Diflocations are there?

A. Three: (1.) When Bones are separate and gape, which before were joined, as when the Scapula parts from the Humerus, or the Radius from the Ulua, or the Tibia from the Fibula. (2.) When Bones are lengthened through Laxity of the Ligaments, and then the Head of the Bone starts a little out of its place, and is easily reduced. And, (3.) When the Bone is wholly out of its place; and this is called a perfect Dislocation.

Q. What are the Signs of a perfect Diflocation?

A. (1.) Motion is lost. (2.) An Hollowness appears from whence the Bone is slipt, and a Prominence on the contrary side of the Juncture.

(3.) The Limb is generally shortned. (4.) That Limb is unlike the sound one, both in Figure and

Site. (5.) There is joined to all the former, grievous Pain.

Q. What are the Signs of that Dislocation where

the Bones gape, or are separated?

A. (1.) The Thickness of the Limb is more than it naturally should be. And (2.) Where the Heads of the Bones meet, the Thickness is much greater.

when the Bones are lengthened?

A. (1.)

A. (1.) The Limb hangs dangling and diforderly, and turns any way. (2.) When the Bone is reduced, the Limb becomes of its natural length; and when it is let go, it immediately slips out again. (3.) There is a Cavity quite round the Joint.

Q. What are the Signs of a Diflocation well reduced?

A. (1.) It is known by the Patient's Ease. (2.)

By the natural Figure of the Limb and Joint, which if compared with the other, will be exactly like it. (3.) Motion is restored. And, (4.) The Head of the Bone generally snaps as it slips in.

Q. How many Intentions of Cure are there in a

Luxation?

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tion, (1·) A. Four: (1.) Extension. (2.) Reduction. (3.) Bandage. (4.) To correct, or keep off Accidents. The (1.) is performed by Assistants or Pulleys. The (2.) by the Surgeon's Hand. The (3.) by handsome Rolling, Boulsters, &c. And the (4.) by fit Medicines, Bleeding, Purging, Diet, &c. Again, the (1.) must be done gently, for fear of Contusion, and avoid twisting about the head of the Bone, lest you break the Edge of its Sinus. The (2.) must be done speedily and effectually at once. The (3.) must be done so as to keep the Limb in its right Posture, and to prevent Instammation. And the (4.) is done by Assingents, such as are prescribed in Fractures; and order every thing else according to Reason and Art.

Q Suppose the Dislocation be old?

A. (1.) Endeavour to soften and discuss the Matter which is flowed into the Joint, with Diach. cum Gummi, or Compositions ex Rad. Althea, Fol. Malv. Far. Lini, Fanugrec. Ol. Oliv. Axung. Porcin. &c. having first well rubbed the Part; or hold the Limb often and long in a warm Bath, Gc. and then proceed as in a new Dislocation.

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CHAP. LII. Of particular Diflocations.

Q. What are the Signs of laxated Jaws?

A. If they be luxated on both fides,

(1.) The whole Jaw appears prominent forwards.

(2.) The Mouth cannot be shut. (3.) The lower Teeth stand out further than the upper. (4.) The temporal Muscles are stretched out very torte and hard.

Q. How is it to be reduced ?

A. Put both your Thumbs (armed with double Boulsters) into the Patient's Mouth, and with your Fingers take hold of the outside of his Chin, then force the Jaw-Bone downwards, backwards and upwards, whilst some Assistant all the while holds his Head steady; then anoint the temporal Muscles with Ol. Rosar. & Lumbricor. &c. and if need be, apply Astringents also. Then roll up the Parts decembly, bleed him, and for three or four Days keep him to Liquids only.

Q. What are the Signs of a distocated Shoulder?

A. It is in Figure very unlike the found Shoulder, having a Cavity on the top, and the head of the Bone may be felt prominent in the Axilla or Armpit; the upper Process of the Scapula appears sharp; the Arm cannot be brought to the Ribs; and lastly, it is longer than the other Arm, and attended with extreme Pain. Thus far of the Signs of a Shoulder dislocated downwards, which it most commonly is; and if it be luxated forwards, the Signs will be evident without any Direction.

Q. How is the Shoulder to be reduced?

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A. Seven several ways; viz. (1.) By Circumroention, when you or the Patient puts the Fift doubled under the Armpit, so that the middle Knuckles may force the Bone into its place, whilft with your other Hand you make moderate Extension, and keep the Bone in a circular Motion: but this is to be used only to Children and tender Bodies. (2.) Let the Patient sit; then put your Head to the Patient's Shoulder, and your Fingers under his Armpits, and then your felf. or some Stander-by, press the Patient's Elbow (with the Knee) towards his Ribs. (3.) Lay the Patient down upon the Floor, on which do you fit down also, and take hold of the dislocated Arm with both your Hands, and put your Heel under his Armpit, (having first placed a Ball there) and then let a Servant take hold of the opposite Arm. and draw it downwards; and another having a strong Roller, (so broad as may take hold of the Ball) let him take hold of both its heads, and draw them up towards the Patient's Head, and with his Foot press upon the dislocated Shoulder. by which the head of the Bone will flip in. Let the Patient stand upon a Stool, and place his diflocated Arm over a tall Man's Shoulder, who must hold the Arm fast down before his own Breaft; then let some one trip away the Stool, that the Patient's Weight may cause the Bone to fnap in. (5.) Set the Patient near some Post, and let a Pole with a Prominence fix'd in its middle. (which we call a Colt-Staff,) be held between two strong Men, then let the Patient's Arm be put over the Pole, with the Prominence fixed close to his Ribs, up close to the head of the Bone; then let your Affistant hold down his Arm, extending it very ftrongly, and preffing it towards his Ribs, or elfe with a Pully fastned to the Post, and

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and to his Arm above his Elbow, to make Extenfion that way; and then you must stand on the
contrary side, with both your Hands on each side
of the Scapula, to press it down, and to keep the
Patient firm in his Seat, and govern the Operation. (6.) Over a Ladder, which is to be managed much as that over a Man's Shoulder. (7.) By
the Glossocomium or Commander, which is to be
used with Caution in tough Bodies, and where the
Bone has been long out. These are the most
common ways now in use. This being done, apply
your Dressings, place a good Boulster under the
Arm, and roll him up, and bleed him, and keep
his Arm quiet, till the Joint gathers Strength, and
that the Instammation and Swelling are over.

Q. Suppose a Dislocation of the Shoulder, and a Fracture on the Os Humeri; which would you reduce

first ? And why?

A. I would reduce the Dislocation first, because if I did not, I should displace the fractur'd Bones, by reducing the Dislocation after the Fracture, and so cause new Work, and Pain to the Patient, and act inartificially and preposterously.

Q. We will now discourse of the luxated Elbow, pray tell me how many ways is the Ulna or Cubit lux-

ated?

A. Forward or backward, outward or inward, and sometimes the Radius follows, and sometimes it does not. If it be luxated forward, the Arm cannot be bent; the Cubit is shorter; a Tumor appears on the fore-part, and a Cavity behind; if backward, the contrary: and so if outward or inward, by the same Tumor and Cavity you may judge of it.

Q. How is it to be reduced?

A. If the Luxation be forwards, Extension must be made obliquely by two Assistants; then let a hard han the ma due you Boo the red be wan emb

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hard Body of Linen be placed on the inside of the Joint, and over that a Girt so long as that you may put your Foot into it. Then whilst they make due Extension, (by your Foot in the Girt, and by your Hands) bend it, and reduce it; or in tender Bodies it may be done by your Hands alone. If the Luxation be backwards or recent, it is easy to reduce by the Hand alone, if an oblique Extension be made very strong. If it be slipt inwards or outwards, it is to be reduced the contrary way; then embrocate cum Ol. Rosar. & Aceto, and apply your Restrictives, make decent Bandage, place the Arm in a middle Posture, bleed the Patient, keep him to a cooling Diet, and his Body soluble.

Q. How many ways may the Carpus, or Wrift, be

diflocated?

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A. Inward, outward, forward and backwards; but commonly forward.

Q. What are the Signs of this Luxation?

A. A Tumor on the fore-part, and the Fingers cannot be bent; if it be backward, the Fingers cannot be extended: if it be inward or outward, a Tumor appears on one fide, and a Cavity on the other.

Q. How are these Luxations reduced?

A. If the Luxation be either forward or backward, the Hand must be laid upon some Table, with the back downwards, if the Dislocation be forwards; and if it be backwards, the contrary: then let good Extension be made, and with your Hand force the Bone into its place.

Q. How are the luxated Bones of the Carpus and

Metacarpus to be reduced?

A. By a moderate Extension, laying the Hand on a Table, and some hard Substance put under it, Oc. Then apply fit Medicines, Rolling, Oc. as has been taught.

Q. How

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Q. How many ways may a Thigh be dislocated?

A. Outwards, inwards, forwards and backwards; but oftenest inwards, because there the Edge of the Acetabulum is lowest, &c.

Q. What are the Signs of fuch a Luxation?

A. If the Luxation be inwards, that Thigh appears longer than the other, and the Knee, Leg and Foot stands outwards, and a Tumor appears near the Perinaum. If the Luxation be outwards, the Signs are contrary, that Leg is shorter; near the Perinaum there is an Hollowness, the Knee, Leg, and Foot, stand inwards, and the Heel cannot touch the Ground. If the Dislocation be forwards, the Thigh cannot be bent, Urine is stopt, the Groins swell, and the Buttocks appear wrinkled. If it be dislocated backwards, the Leg cannot be extended, that Thigh is shorter than the other, that Heel cannot touch the Ground, the Groin appears loose, and the Head of the Bone sticks out backwards.

Q. How is this Diflocation to be reduced?

A. It is with great difficulty that it is done, especially if it has been long out of place; however, if it be new and in tender Bodies, it may be reduced even with small Extension sometimes, if you fuddenly bend the Thigh. (2.) Let an Affistant hold the Patient fast by the Armpits, and another take hold of the Thigh above the Knee, with both his Hands, and make Extension, then do you with your Hands force in the Bone. (3.) Let a wooden Pin be drove into the Floor, then lay the Patient flat on his Back, with his Pin between his Legs, placed close up to the head of the Bone, with a thick hard Boulster between them; then make fast the contrary Leg and Thigh, and endeavour to keep his Body very steady; then apply a firong fost Roller several times about the must

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the diflocated Thigh, to which a Cord or Pully must be fixed, with its other End at some distance; then an Assistant must pull strongly upon the Cord, to make Extension, whilst you manage the Bone to reduce it with your Hands.

Q. How many ways may the Knee be diflocated ?

A. Outward, inward, and backward.

Q. What are the Signs of it?

A. They are very evident. There is an unusual Tumor on one side, and a Cavity on the other, Motion is weakened, and the Figure is deprayed.

Q. How is it to be reduced?

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A. Let two Affistants make Extension, one above, and the other below the Knee, near the Foot; and you must at the same time force the Bone into its place; then dress and roll, as has been directed.

Q. How many ways may the Ancle be luxated?

A. Inward, outward, forward, and backward.

Q. What are the Signs of it?

A. If it be diflocated inward, the Sole of the Foot turns outward; and if diflocated outward, it turns the contrary way: If forward, the broad Tendon of the Heel, called Nervus Hectorius, or Tendo Achilles, is very stiff and hard, and the Foot is less: If the Diflocation be backwards, the Heel is almost hid, the Sole of the Foot seems bigger, and the Foot longer.

Q. How is it to be reduced?

A. By good Extension and Reposition, and curred as other Luxations; only the Patient must there keep his Bed longer, (at least thirty or forty Days) otherwise the Joint will slip out again upon every slight Occasion; or at best, will be a long time weak, Oc.

Q. What are those which Surgeons call Vulnerary Herbs?

A. Such as these; Scabiosa, Sanicula, Auric. Muris, Tanaset. Verban. Symphit. Hyperic. Bistort. Tormentil. Vinc. per Vinc. Centaur. min. Borag. Marrub. Betonic. Valerian. Alchimil. Card. Ben. Flor. Cordial. Agrimon. Osmund. Regal. Scordium, Ulmaria, Tussilag. Plantag. Bursa Pastoris, &c. Out of which, Drinks are to be made, as Occasion offers.

CHAP. LIII.

Of Phlebotomy or Blood-Letting.

Q. W Hat are the Use and Effects of Phleboto-my?

A. By it the Blood is altered both in Quantity

and Quality.

Q. What Inconveniences follow its too frequent Use?

A. The Blood thereby becomes more fulphureous and less falt, and so disposes Men to be both feverish and fat.

Q. That it gives Relief when Blood offends in Quantiry, is plain: But how does Phlebotomy correct the Temperament of the Blood, when it offends in Quali-

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A. If any thing contrary to it be mixed with its Mass, the Blood flowing out, upon a Vein being opened, carries much of that foreign Matter out with it, by which the rest is more easily conquered and expelled; for the Orisice being once opened, Nature rallies all her Force to expel her Enemy; the fermenting Blood gathers together the

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the heterogeneous Particles, and excludes them with the first Blood that flows; from whence it is, that in breathing a Vein, the first Porringer of it shall be mere Putrefaction; the second something better; and the third very good Blood, as every Surgeon may observe.

Q. Does Bleeding restore the Blood to its right Tem-

perament, when it is declining from it?

A. Yes: for when its Mass, by the Sulphur or fixed Salt is exalted, and degenerates into a saline Sulphureousness; some of it being let out, a new Fermentation immediately arises, and the Sulphur and fixed Salt being overcome, the Spirits recover their Dominion. And for this Reason, Phlebotomy is by some administred as well in the beginning of a Consumption, Scurvy, and Jaundice, as in a Fever; but Caution is to be used.

Q. Do all Distempers indicate Phlebotomy?

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A. No; if the Mixture of the Blood becomes very bad, as in the Plague and malignant Fevers; or if the Discrass of the Blood shall be such, that the Spirit, volatile Salt and Sulphur shall be depressed, and the terrene or aqueous Particles predominate, then the Blood ought to be preserved and not sent out; wherefore in a [consirmed] Consumption, Cachexia, Dropsy, &c. if you bleed, you murder the Patient.

Q. From what Part of the Body is it best to draw

A. According to the Laws of Circulation, it should seem not much to matter from what Part it be taken, so it be but large enough; yet it equally slowing from all Parts to the Vena Mediana of the Arm, we generally open that; notwithstanding, (according to common Practice, but how rational that is, I dare not determine) if it ought to be called back from the superior Part of the Body

to the inferior, (as when the Menstrua or Hemorrhoids are suppressed) it is thought most proper to bleed in the Foot.

Q. At what time of the Disease is Phlebotomy to be

celebrated?

A. At the Beginning or Increase, but hardly in the State or Declination.

Q. Why?

A. Because at that time Nature is busy, endeavouring a Crisis, and the Blood very much ferments, so that Nature ought not to be disturbed. Besides, at the height of the Disease, if Nature is Conqueres, she does not want this Relief; and if she be overcome, she will not endure such an Evacuation.

Q. What time of the Day is best for the Operation?

A. When there is a Necessity, it may be done at any Hour of the Day or Night; or (otherwise).

a Morning is rather to be chosen, when the Sto-

mach is empty, and the Vessels emptied by Sweat, the Blood quiet, and appearing free from any ferous Filth; or it may be deferred till the new Juice of things eaten be passed into the Blood, for the Vessels being emptied, are both apt to snatch the crude Chyle, and what is disagreeable to the

Blood alfo, into themselves.

Q. What Quantity ought to be taken away?

A. In a burning Fever, Pleurify, Peripneumonia, Quinzy, Apoplexy, and other grand Difeases, that have their Original from a Phlegmonick Incursion of the Blood, if it be not taken in a large Quantity, it does more harm than good: And on the contrary, in weak and tender Conflitutions, and in Dropsies and Caccehimia's, it is not to be rashly done; or if allowed for particular Reasons, it must be in small Quantities.

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Q. Is a large or small Orifice, the most convenient?

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A. Because if it flows with a small Stream, or Drop by Drop, the Mass of Blood fermenting, will separate into Parts, and what is more Spiritous will burst out, whilst the thicker remains behind; besides an Ecchymosis and Tumor, is apt to remain after it.

Q. Wherein lies the Danger in opening a Vein?

A. In pricking an Artery or a Tendon.

Q. How shall we know how to avoid it?

A. In opening the Jugular Vein, or the Vena Cephalica, there is no Danger, except a Man is mad, and will plunge in his Lancet without Thought: But in the Mediana and Basilica there is; for under or near the one lies a Tendon, and under the other an Artery.

Q. What is a Tendon?

A. It is a fimple Part, diffused thro' the whole Body of a Muscle lengthways, which in some part is united, and in some divided and stuffed with Flesh; softer than a Ligament, and harder than a Nerve; it is the principal Part of a Muscle, and the chief Instrument of Action.

Q. What is an Artery?

A. It is a common Organ, round, long, and hollow, consisting of a double Coat, proceeding from the Heart, fit to carry Blood and vital Spirits to all Parts.

Q. What Signs follow a Tendon being pricked?

A. Extreme Pain, a Flux of Humours, a Mortification, Fever, Ravings, and Convulsion.

Q. What are the Signs of an Artery wounded?

A. The Blood is very florid, it flies out impetuously, by Leaps and Spurts, and will not stop, nor suffer the Orifice to heal.

Q. How are the Hurts of these remedied?

A. With great difficulty; but as to the particular Cure, fee Chap. 45. as to the Hurts of a Tendon: But if an Artery be punctur'd, Ligature is to be made above the Puncture, and the supersicial Parts carefully divided, to come at the Artery, and then by paffing a Silver Hook or Needle under it, Ligature is to be made, both above and below, and divide the Artery at the Puncture, and the two Ends will in some time digest off, and the Wound may be cured as other Wounds. All other ways by Astringents, or by the actual or potential Cautery, are more dangerous, and precarious; tho' if this cannot be done, those may, some of them, be attempted; for it must be done, one way or other, or the Patient will lose his Life or Limb.

Q. Why is so small a thing as the Puncture of an Artery of such difficult Cure, when that of a Vein

heals of itself?

A. Not that the Coats of an Artery are more Nervous than those of a Vein, but because an Artery (like the Heart it self,) ought constantly to shake and beat; its Fibres repeating perpetual Systole and Diastole: wherefore a small Puncture being made in its Pipe, by reason of the continual Motion of the Vessel, and the Essux of Blood, it remains very often incurable, or at best, of very difficult Cure.

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CHAP. LIV. Of Vesicatories or Blisters.

Q. HOW do Vesicatories, or Blistering Medi-

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A. The manner how potential Fires operate, is best found out by enquiring how actual Fire does raise a Blister; of which it is observable, that the fiery Particles, being not too vehemently applied, penetrating the Cuticula, without Solution of Unity, enter under the Cutis it self, where the Ends of the Blood-bringing Vessels, and of the Nerves, and nervous Fibres, are terminated; and there do variously twist together these, altering their Pofition, and perverting the Structure of the whole Texture of the Skin; infomuch that from the Vessels being made angry, the watry Humour being mixed with fiery Particles, and therefore rejected both by the Blood and nervous Juice, is spewed out in great Quantities. Now this Lympha, because it cannot pass thro' the Cuticula, separates it from the Cutis, and raises it into that bladdery Form which we call a Blister. So Cantharides being applied to a Part, and heated by its Effluvia's, and so provoked to exert their poisonous Energy, do abundantly dispatch out fiery Particles, which penetrate the Cuticula without any Laceration; they are thrown upon the Skin, where they first act upon the Spirits, and then upon the Humours. and solid Parts; they dissolve the Humours, excite painful Convulsions of the Fibres; and the Humours being dissolved, are constrained to separate into Parts; and its watry Part, which is tainted by M_3 the the venomous Particles of the Cantharides, is rejected by the other Juice, and spewed out between the Cutis and Cuticula, and so raises a Blister.

Q. Why does Blistering often bring a Heat and Scalding in the Water, and sometimes a Dysuria or

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A. The ferous Juice cannot always bear all the sharp Parts of the Medicine back the same way they entered, but sometimes armed with some of its venomous Particles, slies back into the Mass of Blood, and circulates with it, and is ejected thro other Emunctories, and offends some tender Channels in its Passage; and amongst the rest, being separated by the Kidneys, it hurts them, the Neck of the Bladder and urinary Passage, and corrodes the Parts, and so causes Pain in making Water, &c.

Q. What gives Relief in that Case?

A. Nothing better than a Decoction of Mallows, either in Milk or Water. Also Campb. His, in Conserv. Cynosbat. once in three Hours; which Method will effect a Cure, altho' the Cantharides have been taken inwardly.

Q. In what Diseases are Vesicatories profitable?

A. In all cutaneous Distempers, also in malignant Fevers, Head-Ach, Vertigo, Sopor, in Defluxions of the Eyes, Nose, Palate, or Lungs, Convulsions, Epilepsy, Apoplexy, Lethargy, &c.

Q. In what Diseases are they hurtful?

A. Those that are subject to the Stone, Gravel, or Strangury, find Vesicatories very vexatious; wherefore they are there to be forbore, unless a very urgent Necessity indicate the contrary.

Q. Why is it an ill Sign when they do not rise as

usual?

A. Because it shews that the Animal Spirits are dejected or diminished to a great degree; and all the

she Art of Man cannot make them operate on a dead Body; from whence it's plain, that when they do operate, they do it upon the Spirits. Wherefore when a good Vesicatory is applied, and no Blister arises, we have Reason to fear that they are exhausted, and so consequently Death at hand; yet this Rule is not without its Exceptions, as I have sometimes found.

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Q. Our common way of strowing the Powder of the Fly, over the common Plaister, sometimes causes many small Blisters round about, and a very little or ho Blister where it ought to be, to the vexation of the Patient, and Scandal of the Surgeon: Is there no way to compose a Vesicatory Plaister, that will stick, and do its Office, without strowing it over with Powder of the Flies?

A. Yes; I here give you a Recipe that never

fails, if the Materials are good.

Re Refin. clar. thiiss. Cer. flav. 3vj. Sev. pro Empl. Melilot. 15; Pic. Burgund. 3xx. Pulv. Cantharid. Select. fbij. Ms. & fiat Empl. S. A. This you may depend on, without adding fresh Flies.

CHAP. LV.

Of Fontanels or Issues.

Q. TN what Parts are Issues generally ordered to be made?

A. If it be for a general Evacuation of Humours from the whole Body, let it be made in the Arm; or if it be for Revulfion from some particular Member, make it far distant from the Part affected; M 4

or if it be for Evacuation from some particular Member, make it near the Part affected.

Q. In what particular Parts of the Body, and for the Cure of what Diseases, are Issues generally made?

A. Some for evacuating Humours out of the Brain, prescribe one on the Coronal Suture; or in the fore-part of the Head over the Sagittal Suture; or in the hinder-part of the Head about the beginning of the Lambdoides: fome make it in the Nape of the Neck; some on either side the Spine, or between the Shoulders, or behind the Ears, Issues in the Back are accounted helpful in Gours, Stone, and Cholick, by evacuating the Matter that feeds them; those between the Shoulders on the Arm and Thigh, help pettoral Diseases; and (they fay) one made between the Ribs, helps a Consumption: they are made in the Groin for Weakness of the Loins, and to cure rebellious Sciatica's. Sometimes they are made on the Thigh; but it is far better to make them on the infide of the Leg, a little below the Knee.

Q. In what Part of the Member is an Isue most

Safely cut?

A. Not in the Body of a Muscle, but in the distance between them, because of the Tendons, which the Pea pressing upon, may cause Pain, Inflammation, Fever, and worse Accidents; wherefore let it be made clear of all large Vessels and Tendons.

Q. How are they to be made?

A. Either by Incision, or Caustick, about both which it is needless to say any thing, the Operation is so common.

Q. In what Diseases do they principally prevail?

A. In almost every Disease in the Head, outward or inward; Convulsion, sore Eyes, King's-Evil, Head-Ach, Cramp, Cough, and consumptive Spitting.

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an Asthma, and in Hypochondriac, Hysteric and Ca-chestical Cases.

Q. Suppose an Inflammation seizes it, how is it to

be got off?

A. By emollient Fomentations and Cataplasms, fuch as are before prescribed; also evacuate by bleeding and purging, and keep the Patient to a stender Diet.

Q. But if it runs too much, a thin, stinking, discoloured, ichorous Matter, how is this to be reme-

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A. Let the Patient use a regular Course of Diet, without any Excess; let him avoid small Wines, and Cyder, and all acid Liquors; let the Issue be kept very clean, and dressed twice a day.

Q. But what if it tends to Putrefaction?

A. Then in the room of a Pea, make a Pill of Virgins Wax, incorporated cum Santal. Rub. & Virid. Æris, and put it in, and use a Fomentation twice a Day, & or dissolve Vit. Rom. 3j. in Aq. Font. 3viij. in which put a quantity of common Peas, and let them lie a Night, then take them out, and dry them well, and use them as other Peas; and these (as I am told) are much used in our Hospitals, at this day.

Q. But if it grows dry, and will not run, what will

you do ?

A. Then I would use a Pea armed with Epispassick Plaister; or Peas of Box; or of Hermodastils alone, which is excellent.

Q. What Humours do they evacuate?

A, All those gathered within the Pores of the Skin, or Glands, are brought thither by the Arteries or Nerves, have their Conflux to Issues, and not only so, but the serous Recrements under the Skin, which are wont to be transferr'd, or creep between the Interstices of the Muscles, or Membranes

branes from place to place, have their Passage out

at the Fontanel alfo-

Q. Here has been a great Noise about Dr. C-ch's vulnerary Powder, which stops all Hemorrhages, and cures Wounds almost miraculously: Also the famous Stiptick Water, prepared by our great Oculift, Sir. Neither-Write-nor-READ: And the celebrated Salt of Lemons. Pray what is your Opinion of them, and how do you think they are prepared?

A. As to the vulnerary Powder, it is certainly a very good Medicine; and according to the following Recipe I have prepared it, and find it even the same with the Original: And which I shall

here communicate.

By Limatur. Martis, q. v. affunde Ol. Vitriol. ad trium digitorum supereminentiam, post Ebulliti-onem siltretur. Hujus Olei p. 1. Sacc. Sa-turni. p. 2. simul ad siccitat. evaporentur. pulv. qui reliet. eft, Spir. Vin. Rect. deflagrentur, O deinde servetur ad usum.

The Use and its wonderful Effects may be found

in the Doctor's printed Book.

As to the Stiptick, I take it to be but a very indifferent Medicine; but such as it is, I here shall communicate the Prescription, being very sure, that it is the same with the Original, as any Person may find by comparing them together. viz.

By Aq. Font. Cong. j. Alum. com. toj. Aloes opt. 3j. Cochinel. pulv. subtilis. 3j. coq. Sem. Hor.

O filtretur.

This Medicine may be of use inwardly, to restrain Fluxes of Blood, either by Urine or otherwife; but that it is of fuch external use as the Gazette has formerly made us believe, no wife Man can suppose.

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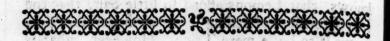
As to the Salt of Lemons, every Chymist knows, that Lemons afford so little Salt, that the very Pretence of selling it at a moderate Price, shews it to be a mere Trick. However, what is called the Purging Salt of Lemons, I here give you the Recipe of; and is certainly a pretty Cathartick.

Refart. vitriolat. this. Refin. Jalap. 3ij. Spir. vel Essentia Limon. 3ss. misce S. A. Powder what is to be powdered; and mix them with the Spirit, or Essence, and keep them in a close Box from Air. Dose 3ss. or 3ij. plus minus.

The End of the Chirurgical Part,



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CHAP. LVI

Of the most Principal Things necessary to be first known and understood in Anatomy, by every young Surgeon.

A. It is an artificial Diffection of the Body, in order to know its Parts; and is divided into Ofteology and Sarcology.

Q. What is Offeology?

A. It is that part of it which treats of the Bones, Cartilages, &c.

Q. What is Sarcology?

A. It is that part of it which treats of the Flesh and the soft Parts; and is divided into Splanchnology, Myology, and Angeiology.

Q. What is Splanchnology?

A. It is that part which describes the internal Parts, especially the Viscera.

Q. What is Myology?

A. It is a Description of the Muscles.

Q. What is Angeiology?

A. A Description of the Nerves, Veins, Arteries and Lymphadu& Vessels.

Q. What is a Bone?

A. It is a fimilar Part, dry, cold, hard, inflexible and infensible, giving Strength and Form to the whole Body.

Q. What is a Cartilage or Griftle?

A. It is a similar Part, cold, dry, flexible, but insensible, and not so hard as a Bone, except by Age it degenerates; it has neither Membrane, Nerve,

Nerve, Cavity, nor Marrow; but they have a Mucosity that preserves them slexible: their use is, to cover or line the Bones in their Articulations, for their easier Motion.

Q. What is a Nerve?

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A. They are the Organs of Sense, long, round, white Bodies, covered with two Membranes, made of the Dura and Pia Mater, composed of Fibres, springing from the Cortical Part of the Brain and Cerebellum.

Q. What is a Tendon?

A. It is a fimilar Part, of a peculiar kind, diffused through the whole Body of a Muscle lengthways, which in some part is united, and in some divided and filled with Flesh, but mostly possessing the Head and Tail of the Muscle, yet only in such as have Bones to move. It is softer than a Ligament, and harder than a Nerve; or it is a Prolongation of the Fibres freed from the Parenchyma, and cloathed with the investing Membrane of the Muscles.

Q. What is a Muscle?

A. It is an Organical Part, and is a Texture of Fibres, confifting of Nerves, Arteries, Veins, and Lymphatick Vessels, and is the Author of voluntary Motion. It is called Mus, a Mouse; either because it resembles a stea'd Mouse, or else from Mus, to contract, which is the Action of a Muscle.

Q. What are the Arteries?

A. They are long, round, hollow Vessels, confisting of four Coats, commencing from the left Ventricle of the Heart, where they receive the Blood that they distribute to all the Parts of the Body.

Q. What are the Veins?

A. They

A. They are Membranous Conduits, confifting of four Coats, which receive the Blood from all Parts of the Body, in order to convey it back to the Heart.

Q. What is a Ligament?

A. It is a folid and white Substance, softer than a Griffle, and harder than a Nerve; being of a middle Nature between a Cartilage and a Membrane: its use is to tie the Parts of the Body together, chiefly the Bones.

Q. What is a Fibre?

A. It is a Body like a Thread; slender, tenacious and irritable, made for the sake of Strength and Motion.

Q. How many Bones are there in the whole Bo-

A. Our Moderns generally reckon 249.

Q. As how?

twenty nine, and the fix Offa Innominata, viz. the two Ischia, the two Ilia, and the Ossa Pubis.

In the Arms and Hands — 62
In the Legs and Feet — 60

In all 249

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Q. How are the Bones joined together?

A. Either by Articulation or Symphysis.

Q. What is Articulation?

A. It is the natural Conjunction of two Bones touching one another by their Extremities; there are two kinds of it, viz. Diarthrofis and Synarthrofis.

Q. What

Q. What is Diarthrofis?

A. It is an Articulation, in which the Motion is manifest; and is divided into (1.) Enarthrosis.

(2.) Arthrodia. (3.) Ginglimus.

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A. Enarthrosis is when a large and long Head is received into a deep Cavity, as the Head of the Os Femoris into the Cavity of the Os Innominatum. Arthrodia is when a superficial Cavity receives a flat Head, as when the Head of the Humerus is received into the Glenoide Cavity of the Scapula; or the Heads of the Metacarpus or Metatarsus into the Cavities of the first Phalanx, or rank of the Bones of the Fingers, &c. Ginglimus is an Articulation in which two Bones do mutually receive one another, as the Bone of the Carpus which is received into that of the Os Cubiti, and the Os Cubiti into that of the Carpus.

Q. What is Synarthrofis?

A. It is an Articulation fo strong and firm, that it has no distinct Motion; and is divided into Sutura, Harmonia, and Gomphosis.

Q. What are they?

A. Sutura or Suture, is when two Bones are joined together, like the Teeth of two Saws; and this is only in Bones of the Scull. Harmonia is an Articulation, wherein the Bones are joined in a fimple streight Line, or a Circular; as the Bones of the Face, Nose, and Palate. Gomphosis is a compact Articulation, when one Bone is sunk or driven into another, like a Nail into a Piece of Wood; and thus the Teeth are fastned into their Sockets.

Q. What is Symphysis?

A. It is either with some intermediate Substance, or without it; that without it, is like a Tree

Tree and its Graft: and thus Nature by hardening the Bones of the lower Jaw, and the Epiphysis belonging to it, does so join them, that they make one continu'd Body. Symphysis with some intervening Body, is divided into, (1.) Synneurosis. (2.) Sysarcosis. (3.) Synchondrosis.

Q. What are they?

A. Synneurosis, is when Bones are united by means of intervening Ligaments, as in the Articulation of the Rotula with the Tibia. Sysarcosis, is when Bones are joined by means of Flesh, as the Os Hyoides with the adjacent Parts, &c. Synchondrosis, is when Bones are united by a Cartilage, as the two Bones of the Os Pubis, &c.

Q. Are there no other Kinds of Articulation?

A. Yes; the Articulation of the Ribs with the Vertebra of the Back, and the Bones of the Carpus and Tarfus, one amongst another, and that is called Amphiarthrosis; and there are some others of lesser moment, which I shall omit for Brevity's sake.

Q. What is an Apophysis of a Bone?

A. It is a Protuberance, which rifes on the Superficies of the Bone, with which it has the very fame Continuity; and fuch is the Prominence you fee on the Os Petrofum, called Apophysis Mastoides.

Q. What is an Epiphysis of a Bone?

A. It is an Appendage, or additional Bone, joined to the principal by a simple Contiguity; and such is the Prominence you see on the Os Tarsi: Its use is, (1.) to strengthen the Articulation; and (2.) to insert divers Muscles and Ligaments.

Q. Has every Bone its Epiphysis?

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A. No; the lower Mandible has none of them, the Ribs have each of them one; the Bone of the Leg and of the Arm have each of them two; those of the Os Ilium three; those of the Femur, four; and each Vertebra five of them: in Infants they are Cartilaginous, but harden as Years advance, till about the 20th Year they convert into Bone.

Q. How are the Bones nourished?

A. By Blood; though the Marrow does ferve to moisten them, as the Fat does other Parts; they all contain a Marrow, yet they want Sense, though they are all (except the Teeth) covered with their Periosteum, which is very sensible, being a thin, nervous Membrane.

Q. What is the Spine?

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A. It contains all the Bones from the first Vertebra of the Neck (called Atlas) unto the Coccyx or Rump-Bone.

Q. How are the Vertebræ divided?

A. The Neck has feven, the Back tweve, and the Loins five; in all twenty four.

Q. How many Ribs are there in the Body?

A. They are in Number twenty four, viz. twelve on each fide; the seven Superior are called true, and the five Inferior false, or short Ribs.

Q. How many Teeth has a full-grown Person?

A. Sixteen in each Jaw, in all thirty two; and confift of three forts, viz. (1.) Incifores or Cutters, and are those which we call the Foreteeth; each Jaw has four of them, and they have but one Phang a-piece. (2.) Canini, or Dog-Teeth, they are in number four; in each Jaw there are two, at each side of the Cutters one; they are otherwise called Eye-Teeth, and have but single Phangs. (3.) Molares or Grinders, because like Mill-Stones they grind the Meat; they are in number twenty,

(viz.) five on each fide of each Jaw, the two foremost have but two Phangs at most, but the others commonly three or four.

Q. Name the Sutures?

A. They are the Coronal, Lambdoidal, and Sagittal. The Coronal Surure extends from one Temple to another, and joins the Os Frontis with the two Bones of the Sinciput or fore-part of the Head. The Lambdoidal Surure is so called, because it is made like the Greek Letter A; it is opposite to the former, and unites the Os Occipitis with the two Bones of the Sinciput behind. The Sagittal Surure is placed on the superior Part of the Head, and goes from the Coronal to the Lambdoidal.

Q. How many sorts of Hurts, is the Scull subject

A. (1.) Depressio, a Depression.

(2.) Concameratio, a Vault- Called Compound ing. Fractures in Cranio

(3.) Excisio, a Part cut a-

(4.) Fractura, a Fracture in a strict Sense, where both Tables are broke.

(5.) Sedes, or the Print of the Weapon wounding.

(6.) Rima, Fissura, or Chink.

(7.) Contusto, a Contusti-

(8.) Dissolution of a Suture, (viz.) when it gapes or separates.

(9.) Collision of a Suture, (viz.) a Contusion of its Brims.

(10.) Contra Fissura, a Fissure in the opposite keness Part to that where the Blow was received. Q. What

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Q. What are the Ulna and Radius, Tibia and Fibula?

A. They are the greater and lesser Bones, or Fossiles of the Arm and Leg.

Q. What is the Carpus?

A. It consists of eight Bones, and is situated between the lower Articulation of the Ulna and Metacarpus.

Q. What is the Metacarpus?

A. It is that Part which is between the Carpus or Wrist, and Fingers, and is composed of four Bones.

Q. What are the Bones which make the Tarfus or

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A. In confifts of seven Bones, (viz.) the Astragalus, Calcaneum, Naviculare, Cuboides, and the

three Cuneiformia.

The Aftragalus (or Talus) has in its upper part a convex Head, which is articulated with the Tibia and Fibula by Ginglymus; its fore-part, which is also convex, is received into the Sinus of the Os Naviculare: Below, towards the hind-part of the under fide, it has a moderately large Sinus, which eceives the upper and hinder-part of the Os Calis.

The Os Calcaneus, or Calcis, or the Heel-Bone, ies under the Astragalus, to which it is articulaed by Ginglymus: Behind, it has a large Protuerance, which forms the Heel, and into which he Tendo Achillis, or large Tendon of the Heel,

inferted.

The Os Naviculare lies between the Astragalus nd the three Offa Cuneiformia, and has its Name of its com the resemblance it bears to a Ship, and is perefore sometimes called Cymbiforme, from its ppolite kenels to a Boat: Behind, it has a large Sinus; and

N 2 before

before, it is convex, distinguished into three Heads.

The Cuboides, or Os Cubiforme, is joined behind, to the Os Calcis; before, to the two outer Bones of the Metatarsus; and on its inside, to the third

Os Cuneiforme.

The Ossa Cuneiformia are so called from their Wedge-like Shape, and lie all three at the side of one another: The inmost is the largest, and the middlemost is the least; their upper-side is convex, and their under, concave; by that means hindering the Muscles and Tendons of the Feet from harm, when we go.

Q. What is the Metatarfus?

A. All that part between the Instep and Toes, and consists of five Bones.

Q. What is properly called the Thorax.

A. The Thorax or Breast, is the whole Cavity that reaches from the Claviculæ or Collar-Bones, to the Diaphragma, or Midriff; it contains the Heart, Lungs, part of the Windpipe and Gullet, the Arteria Magna, Vena Cava, and Ductus Thoracicus.

Q. How many Nerves are there in the whole Bo

dy?

A. They are counted by Pairs, and in the whole there are forty Pair of them; ten Pair of which take their rife from the Medulla Oblongata and thirty from the Medulla Spinalis, which thin make their egress by fixty Perforations in the Spaces between the Vertebra; and though all has their exquisite Sense communicated to them from the Brain, yet the Substance of the Brain itself wholly insensible, which is very amazing?

Q. What is the Cerebellum;

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A. It is a marrowy windy Body, that lies under the Brain, in the lower and hinder-part of the Head; its lower part is continuous with the Brain, but the upper is fever'd from it by the Folds of the Dura Mater.

Q. How many Muscles are there in the whole Bo-

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A. They are in number four hundred and thirty four; thus, (viz.) in the Forehead two, in the Occiput two, the Eye-lids fix, the Eyes twelve, the Nose seven, the external Ears eight, the internal Ears four, the Lips thirteen, the Tongue eight, the Uvula four, the Larynx fourteen, the Pharynx seven, the Os Hyoides ten, the lower Jaw twelve, the Head fourteen, the Neck eight, the Shoulder-Blades eight, the Arms or Shoulder-Bones eighteen, the Ulna twelve, the Radii eight, the Wrists twelve, the Fingers forty eight, Respiration fifty seven, the Loins six, the Abdomen ten, the Testicles two, the Bladder one, the Yard four, the Anus three, the Thighs thirty, the Legs twenty two, the Feet eighteen, the Toes forty four.

Q. What is the Abdomen?

A. It is all that Cavity which extends from the Diaphragma to the Os Pubis.

Q. What are the five Pair of Muscles of the Abdo-

men called ?

A. (1.) Oblique Descendens. (2.) Oblique Ascendens. (3.) Rectum. (4.) Pyramidalis. (5.) Transversalis.

Q. What is the Linea Alba?

A. It is a concourse of all the Aponeuroses of the Muscles of the Abdomen. It extends from the Cartilago ensistements or Xiphoides, to the Os Pubis.

Q. What

Q. What are the Number and Names of the In-

testines or Guts ?

A. They confift of three Coats, and are about feven times the length of the Person; they are in Anatomy divided into six, (viz.) three small, and three great ones; the small are the Duodenum, Jejunum, and Ilium; the great ones are the Cacum, Colon, and Rectum.

Q. What is the Epigastrick Region?

A. It is the superior part of the Abdomen; it begins at the Cartilago Ensiformis, and ends two Fingers breadth above the Navel; its middle part is called Epigastrium, which incloses the small Lobe of the Liver, part of the Stomach, with its inferior Orifice, and the middle part of the Colon.

Q. What are the Hypocondria?

A. The two sides of the Epigastrick Region, are called the right and left Hypocondrium; the right contains the great Lobe of the Liver and Gallbladder, and the left contains the greatest part of the Stomach and Spleen.

Q. Which is the Umbilical Region?

A. It begins two Fingers breadth above the Navel, and ends two Fingers breadth below it; its middle part is called the Navel, and its two fides the Loins; the Navel includes the greatest part of the Jejunum and Mesentery; the right Loin contains the right Kidney, the Cacum, part of the Jejunum and Colon, and the left Loin the left Kidney, and some part of the Colon and Jejunum.

Q. Which is the Hypogastrick Region?

A. It is called Hypogastrium; its Sides are the Ilia or Flanks; under it we find the Restum, Bladder, and Matrix: the Ilia are so called, because they contain the Gut Ileum; the Hypogastrium is divided into the Pubis and Groins.

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Q. What are the Venz Lacez?

A. They are slender pellucid Vessels, having but one Coat, sent in vast Numbers thro the Mesentery; their use is to carry the Chyle from the small Guts to the vesicular Glands of the Mesentery, and so to the Receptaculum Chyli: they are of two sorts, and called primi & secundi generis.

Q. What is the Mesentery?

A. It is a membranous Part, which ties most of the Guts together, and keeps them from tangling; it has two proper, and one common Membrane; it contains Veins, Arteries, Nerves, Lymphaduels, Glands, and Vena Lastea.

Q. What is the Lympha?

A. It is a fermentatious Liquor, separated from the serous part of the Blood in the conglobate Glands, impregnated with volatile Salt, and sulphureous Particles; which, when brought to the Vasa Chylisera, makes the Chyle thinner, and apt to dilate easily in the Heart; and the same it does by the venous Blood in the Veins, if it is too thick. It differs from a Serum; for if set in a Spoon in the cool, it will turn to a Jelly. The Lymphaducts are Vessels long, hollow, small and knotty, having many Valves, which suffer the Lympha to pass to the Chyliserous Vessels, (and some Veins) but hinder its return.

Q. What is the Larynx?

A. It is the Head of the Windpipe.

Q. What is the Pharynx?

A. Only the Orifice of the Oesophagus, dilated to a great Extent.

Q. What is the Epiglottis?

A. It is the fifth Cartilage of the Larynx, and ferves like a Trap-Door to keep any thing from falling into it.

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Q. What are the Spinalis Medulla, and Spinalis

Oblongata?

A. The Spinalis Medulla, or Spinal Marrow, is only a Production and Continuation of the Brain; tis divided into two parts, one of which is lodged in the Brain, and is called Medulla Oblongata, and the other contained in the Vertebra, which is properly called Medulla Spinalis. The Medulla Oblongata is of a Substance harder than the Brain; and the Medulla Spinalis more solid than that; being a Rope of Nervous Fibres, distributed to all the Parts of the Body, and gives them exquisite Sense, and Motion; it has three Coats, one of which proceeds from the Dura, and the other from the Pia Mater.

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Q. Why has the Heart a Pulfation, and why is the Blood red?

A. No (satisfactory) Reason, that we know of, can be given for either of them, but the Will of the great Creator. Not but Attempts have been made by Men of ready Inventions; which may be seen in a Treatise of ours, lately published, called, Mechanical Essays, explicating the Animal Occonomy, &c. a Book of great use to all young Practitioners. Printed for A. Bettesworth, at the Red-Lyon in Paternoster-Row, London.

Q. How is the Body nourished?

A. By Blood; which Blood is thus made: The Food after being chewed in the Mouth, and mixed with the Saliva or Spittle, passes through the Oesophagus or Gullet, into the Stomach; the inner Coats of both which, being full of small Glands, are continually supplying the Stomach with an Acid, which meeting with the pounded Food, makes a fort of ferment, and makes it become more liquid, and perfectly uniform; which being equally on all sides squeezed by the Stomach, passes

passes through the Pylorus into the Intestines; where (in the Jejunum and Duodenum) it mixes with the Bile and Pancreatick Juice, by means of the Ductus Cholidochus and Ductus Pancreaticus, which open into them for the same purpose; these here meeting with the Aliment, perfect the Liquefaction, and then it makes its way thro' the other Intestines, where the groffer Part is evacuated by Stool, and the most refined Part called Chyle, enters the Orifices of the first Vena Lactea, which are more numerous in the Jejunum, than in any other Intefline, and spread themselves all over the Mesentery, in whose Basis there are Glands, in which these Veins terminate; and the Chyle is received by the second fort of the Vena Lattea, and conveyed to the Receptaculum Chyli, from whence it rifes through the Ductus Thoracicus to the left Subclavian Vein, and so glides on to the descending Branch of the Vena Cava; after that to the right Auricle. and then to the right Ventricle of the Heart. Then by its Systole or Contraction, it is forced thence into the Lungs, and then descends into the left Auricle of the Heart; whence it is expelled into the Aorta, or great Artery, and so passes along with the Blood, by the Arteries, through the whole Body, and returns again with it by the Veins to the Heart, and undergoes many Circulations before it is turned into Blood; but by the vital Spirits and other active Principles of the Blood. it receives some Alteration every time it circulates: till at length all its Mass, (that is capable of being turned into Blood) is sanguified; and what is not, is discharged by Urine, Stool, Sweat, Ge. The Blood being thus made, the Body is nourished by it; for there is that diversity of figure, both in the Particles of the Blood, and Pores of each part, that in the Circulation every Particle flicks

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in its proper Pore, in order to pass into the Nourishment of that part, which is of the same Nature with its self; (viz.) the Salt and sulphureous Particles equally mixt, go to nourish the sleshy or musculous Parts; the Oily and Sulphureous to the Fat; the Salt and Tartareous to the Bones, Oc.

Q. How much Blood is supposed to be in the whole

Body ?

A. According to some Authors, fifteen or twenty; and to others about twenty four Pounds; which circulates fix or seven times in an Hour.

Q. Why is the Arterial Blood more florid than the

Venal?

A. That Colour is merely owing to the mixture of the Particles of the Air with the Blood in the Lungs; and even the Venal Blood a while exposed to the Air, acquires (contrary to its Nature) a florid Colour also, most commonly.

Q. What is Saliva or Spittle?

A. It is made of the Blood which passes thro' the Parotid Glands, placed behind the Ears, and the Maxillary Glands, seated under the lower Maxilla, between the Larynx and the Os Hyoides, and is pressed out thence into the Ductus Salivares, which open into the Mouth, under the Tip of the Tongue, upon the two sides of the Franum, by the lower Fore-Teeth. These Ductus's are four in number.

Q. How much Choler is Supposed to be in the Bo-

dy?

A. About two Pounds; but it is very uncer-

Q. How does it cause the Jaundice?

A. Either when through the want of a convenient Fement, it is not separated from the Blood: or when the Neck of the Vesica Fellis is stopped, that none

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none can pass out of it into the Intestines. But, the Reader may find greater Satisfaction in my Mechanical Esays on the Animal Oeconomy.

Q. What is Hunger and Thirst?

A. Hunger is caused by an Acid, which continually trickles down the Cavity of the Stomach from its own Glands, and those of the Oesophagus, which when the Stomach is empty, it finds nothing to prey upon, therefore pricks upon the Membranes of the Stomach, and so causes a desire of Food; and when there rises up some Vapour, which heats its superior Orifice, it inclines us to cool it with something; and this is what is called Thirst.

Q. How is Milk produced?

A. Milk confifts of a middle Nature between Blood and Chyle; being not so thick as the one. nor fo ferous as the other, and is thus made: When the Chyle has mixed with the Blood (as has been faid) and is got as far as the Aorta, that part of it which is most ferous, is conveyed by the emulgent Artery, and strained into the Kidneys, by the papillary Bodies, to be fent from thence, by the Ureters to the Bladder, and so voided by Urine, whilst that part that is most milky, is carried by the small Branches of the Mammaria, to all the Glands of the Breast, into which the Secretion of it is made; where all its Particles being united, make up a Body of Milk, which is thrown by the Pipes of these Glands into the common Ciftern. where it remains till the Child (by the Tubuli which run from the Ciftern to the Nipple) draws it out. Vide Mechanical Esays, &c.

Q. What is Smelling, and how is it performed?

A. It is a passive Quality of the Osfactory Nerves, in receiving the Impression that Odorous Bodies

make, by virtue of their Exhalations; thus,

viz.

wiz. the little Atoms that exhale from Odoriferous Bodies, being carried by the Air to the Nose, strike upon its inner Membrane, and shake the small Pipes of the Olfactory Nerves; upon which the subtle Matter with which they are filled, partaking of the same Motion, slies immediately to the Corpora Striata, where these Nerves take their rise, and where the Soul perceives that this is an Impression of an odoriferous Body. And this is what is called Smelling.

Q. What is the Difference between Conglobate and

Conglomerate Glands?

A. Conglobate Glands are they which are undivided, being of one Substance and Composition, appear firm, and have an even smooth Surface. Conglomerate Glands are composed of several little Bodies, joined under one Membrane, such as the Pancreas, Salival Glands, Lachrymal Glands, &cc.

Q. What is the Os Hyoides?

A. It is seated at the Root of the Tongue, under the lower Jaw, and above the Larynx, and is shaped like the Greek Letter τ , whence it is called Tpfiloides; by its Gibbous Side it is joined to the Basis of the Tongue, and into its Concave, it receives the Epiglottis.

Q. What is its Ufe?

A. It ferves for the Infertion of those Muscles that move the Tongue, and for keeping the Throat open till we swallow, and to keep open the Windpipe till we breathe and speak.

Q. What is the Os Pubis?

A. This is what is called the Share-Bone, and is the third of the Offa Innominata, of which it is the lower, and inner, or fore-part.

Q. What are the Offa Innominata?

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A. The Os Ilium, Coxendix and Pubis, joined to the Os Sacrum (through the Intervention of a Cartilage) by a strong Ligament, which together frame the Pelvis, or Cavity, which contains the Bladder, Matrix, and part of the Intestines.

Q. What is Hearing?

A. It is a Sense, whereby Sound is perceived from a trembling Motion of the external Air, beating upon the Tympanum, and so moving the internal Air with the Fibres of the Auditory Nerve, and communicated to the Brain.

Q. What is the Tympanum?

A. It is what is called the Drum of the Ear; and is a nervous, round, pellucid Membrane, of most exquisite Sense, separating the outward from the inward Ear; and fprings (according to some) from the Pericranium; to others, from the Pia Mater; to others, from the Dura Mater; and to others, from the fofter Process of the auditory Nerve expanded. When it is taken away, a Cavity appears on the infide of it; in which are contained four little Bones that are moveable, and very much conduce to Hearing; viz. (1.) Malleolus, or the little Hammer. (2.) lucus, the Anvil. (3.) Stapes, the Stirrup. And, (4.) Os Orbiculare, so called from its round Shape. If by any Accident, the Tympanum is lacerated, the Hearing of that Ear is irrecoverably loft; therefore let the young Surgeon be cautious how, or with what, he syringes an Ear; and be fure to use an Ear-Syringe, and not one with a long Pipe, nor do it too forcibly, left he come off with just Shame and Scandal, and do fuch Mischief as he can never make Satisfaction for. As to what he ought to syringe an Ear with, in Deafness, Oc.

warm Water, in which is a Quantity of Canary, Aq. Hungar. or good Brandy, may ferve as well as any thing.

Q. What is Vision or Sight?

A. It is that Sense whereby from the different Motion of different Rays, gathered in the Crystalline and Vitreous Humour, and striking upon the Tunica Retina, visible Objects are perceived.

Q. How many Humours is the Eye composed of?

A. Three, (viz.) Aqueous, Crystallinous, and

Vitreous.

Q. How are they fituated?

A. The Aqueous is outermost, and fills up that Space which is between the Cornea and Crystalline Humour before: If any thick Particles swim in it, then Flies, &c. seem to be slying before the Eyes; and if they yet grow thicker, so as to cause a Film, and this be spread before the hole of the Pupilla, it makes that Disease called a Cataract. The Crystalline Humour is placed between the Aqueous and Vitreous, not exactly in the middle of the Eye, but inclining rather towards its fore-part; it is more bright and solid than either of the other two. The Vitreous, so called from its likeness to melted Glass, is thicker than the Aqueous, and thinner than the Crystalline, and exceeds both in Quantity.

Q. How doth Blood pass out of the Arteries into

the Veins?

A. Either by Anastomosis, or Inosculation, (which is now, with Reason, not believed;) or else by the Capillary Arteries letting out their Blood into the Pores of the Substance of the Parts, on whose Nourishment part is spent, and the rest imbibed by the Mouths of the Capillary Veins;

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Q. Which is the Vena Saphana?

A. When the Iliacal Branches of the Cava are descended as far as the Thigh, they are called Crurales; and when past the Groins, are divided into six more, the first of which is the Saphana, and which descends down the inside the Thigh and Leg, between the Skin and Membrana Carnosa, and generally appears turgid, on the inside the Ankle, where it is opened with safety and success, in Diseases of the Matrix.

Q. What is an Hair?

A. It is a small Body, Thread-like, hard and flexible.

Q. Of what Figure are they?

A. Generally four-square, sometimes triangular, seldom round, but always porous lengthways.

Q. What are Nails on the Fingers and Toes?

A. They are a horny transparent Substance, coming nearest to Bones, and are given for Defence, but are without Sense; and both they, and the Hair, will grow after a Man is dead.

Q. Of what Weight and Bigness is the Brain of a

Man?

A. Some Men's weigh four or five Pounds, and are by fome affirm'd to be as big again as that of an Ox.

Q. And what is your Defign in publishing this Book

the fourth time?

A. The very same as it was the first, second, and third; (which have given such Satisfaction to the World, that they are all sold off;) and that was, To serve my Generation; and to deliver

deliver that in a few Words, and pleasant Method, that others have made mysterious Volumes of, to torture the young Reader's Pocket, and Memory to little Purpose.

Candidus imperti; si non, his utere mecum. Horat.



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APPENDIX:

CONTAINING

A Rational (tho' short) Account of the Venereal Disease in every Stage of it.

With the True Method of Cure, and Management of a Patient under it.

HE Venereal Disease being so common, and there being such a multitude of Pretenders to its Cure, and so many miscarrying under their Hands, I beg you will favour me with your Thoughts about it.

A. With all my heart; ask what Questions

you please, only use Brevity.

Q. Whence had it its Original?

A. Some say from France, and from thence call it Morbus Gallicus; others from Naples: but it is of no great moment to know from whence it came, it is sufficient for us that we know it is now in our own Country; nor will we contend about Words, and wrangle, whether the first Stage of it, attended with a Gleet, should be called Gonor-rhwa, or Stillicidium, or whether a Discharge at the

the Salival Glands, by the use of Mercury, be most proper to be called a Salivation, or a Ptyalism; but discourse only of what is more material.

Q. How many ways may a Person be infected with

the Grand Pox?

A. (1.) By impure Embraces, (2.) by a lascivious Contact of the Genitals, (3.) from pocky Parents, (4.) by sucking an infected Nurse, (5.) by sucking an infected Nurse, (5.) by sucking an infected Infant, and (6.) it is not adviseable to lie in Bed with a pocky Person, especially for young and tender Bodies; but as to sitting on the same Seat, putting on the same Glove, or wiping on the same Towel, there is no danger in any of them, and they are only sham Pretences for some wicked Persons to impose on their credulous Relations by:

Q. What is the Nature of its Poison, and how is it

to be accounted for?

A. It would take up too much room to give you the Opinions of all that have wrote about it, and who, as they all differ one from another, cannot be all in the right, but may possibly be all in the wrong; and it being only a matter of Speculation, I shall not spend time here about it, but refer you to my Mechanical Essays on the Animal Occonomy, a Book worth your buying.

Q. How do you distinguish, of this Disease?

A. The first Infection is commonly called a Gonorrhwa or simple running at the Penis, and the second Infection is by way of Eminence named the POX; either proceeding at once from the impure Embraces of a pocky Person, or from a Gonorrhwa ill cured.

Q. What is a CORDEE?

A. It is a Constriction of the Franum, whereby the Penis is pulled down (in the nature of a Curve,) when it is erected, causing exceeding Pain; and it commonly

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commonly happens when the Patient awakes out of his Sleep.

O. How is it to be cured?

A. Some advise to dip the Penis in cold Milk, or Water; whilst others say that such a Method is apt to shut the Pores, and pen up the Poison, and rather advise to dip Cloths in Oxycrate, and wrap them about the Scrotum: but the most effectual way is to give brisk Purges with Mercurials, and now and then a Dose of Turbith Mineral to make Revulsion, and at proper times, Emulsions cum Sale Prunel. Camphor. &c.

Q. What is a Phimosis, and Paraphimosis?

A. The one is a Constriction of the Prepuce over the end of the Glaus, so that it cannot be drawn back; and the other is a painful Restricture of it when it is drawn back behind the Neck of the Glans, so that it cannot be again brought over its end, to cover it.

Q. How must I remedy this Mischief?

A. Foment it with a Decoction ex Fol. Malv. Verbasc. Summit. Centaur. Hyperic. Sem. Lini, Flor. Cham. Flor. Melilot. Sambuc. &c. and if need be, thicken up some of the Ingredients with Farin. Fabar. into a Cataplasm, and apply it warm, and purge with Pil. ex Duobus and Calomel. and between whiles make Revulsion with Turbith Mineral, &c.

Q. What must be done in a Dyfuria, or Heat, Pain,

and Difficulty of Urine?

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A. On the Days the Patient does not purge, give him plentifully of Emulsions, ex quatuor Sem. Frigid. maj. cum Sem. Papaver. Syr. Althea, &c. and with a Draught of it at Night (on the purging Days) Syr. è Meconio 3j. or 3vj. and instead of making the Emulsion of Aq. Font. make it of Aq. Hordei, in Ibij. of which dissolve 3vj. of Gum Irabic. And if this does not do, mix with each

Dose, Salis Prunel. 3ss. and in some stubborn Cases, or in a Cordee, or Priapism, add Sacc. Saturni, or Camphor. gr. v. or vj. or if the Emulsion cannot be had, a strong Decott. Malvar. will infallibly do it in three or four Days, drinking of it at least two or fbiij. a Day, as I know by forty Years happy Experience.

Q. What is a Caruncle?

A. It is a little Excrescence of Flesh, growing in the Urethra, caused by the corroding Gleet, passing thro it, and lodging there. In a Clap of long standing, or in one that is a consequent of several, one upon another, or from one ill cured. The Patient that has them, commonly pisseth in divers Streams, and sometimes only by Drops, as in a Strangury, and with prodigious Pain; and if the Ductus is wholly stope thereby, there must be fpeedy Relief, or Death is the Consequence, and that very quickly.

Q. What must be done in this deplorable Case?

A. By a Catheter Probe, or rather by a Wax Candle, made small on purpose, and dipt in Oil, and passed gently into the Urethra, you may discover its Situation; but unless Life is in danger, you must not be too rough with it to force it thro the Caruncle, but rather use a medicated Candle, to eat it off.

Q. How is that to be done?

A. Having a Piece of a very small Wax Candle, of a fit length, scrape off the Wax at one end, and dip the same in a fit Mixture, to supply the place of the Wax scraped off. The Composition is to be either only very drying, or Cathe retick; as Pulv. Sabin. Alum. uft. Pracipit. Rub. Lap. Calaminar. Vitriol. Calcinat. Merc. Sublimat. &c mixt with a due proportion of Empl. Diacalcit. Cerus. or è Mucilagin. which may be found in Au thors

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thors, differently proportioned: but for a Specimen, take only this; By Merc. Præcip. rub. 3ij. Lap. Calaminar. Jij. Vitriol. Calcinat. Jj. Empl. Diacalcit. 3is. ad ignem liquefact. & fiat Cand. S. A.

Pass the medicated End of the Candle, so far into the Urethra, as to press gently upon the Caruncle; and being fixed close there, turn the other End back, over the End of the Prepuce and Glans, and secure it there from slipping: and let the Patient drink as little as possible, to avoid making Water; for when he does, he must take out the Candle, and when he has done, put in another himself. Upon drawing forth the Candle, he may inject warm, a little Aq. Hord. or Mucilag. è Sem. Cydonior. to assuge the Heat and Pain. And let him sollow this Method, until the Sloughs separate and come away; and then to heal it, inject Aq. Calcis, or Decost. Cort. Granat. Balaust. &c. cum Syr. Ros. Siec. warm.

Q. What are Chankres, or (as they are commonly

called) Shankers?

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A. They are Venereal Ulcers (most commonly) on the Prepuce, and Glans.

Q. How are they to be cured?

A. As to Externals, (if they are of a mild kind) Pracipit. Rub. strowed on them, a Digestive over that, and kept conveniently on, often do the Business; as does sometimes Argent. Viv. kill'd (as it is called) with Tereb. Ven. and apply'd on Pledgets; but if these sail, the Chankres may be touched with Lac. Sublimat. and sometimes a light Touch of the Lunar Caustick; but if nothing will do, sume them with Cinnab. factit. 3j. on an Iron Pad, three parts red-hot, twice a day, and purge well with Pil. ex Duob. gr. xxv. & Calomel. gr. xii. and for two or three times, (to cause Revulsion) and at two or three Days distance, Exhibit.

Turp. miner. gr. vii. or viii. in Conf. Rof. rub. and then purge again, as before, until the Malignity is subdued: But if there is only a simple Excoriation, Unguent. Tutia, or Cerat. ex Lap. Calaminar. will sometimes heal it.

Q. How is a Bubo to be-managed?

A. If there is only an Induration of the Glands, and the Infection recent, give mercurial Catharticks; but if it is large and painful, forbear purging, and hasten Suppuration, with Empl. Diach. cum Gum. or a Cataplasm ex Rad. Lilior. alb. Althea, Allii, Bryon. Fim. Columbi, Pic. pinguid, &c. And when Matter sluctuates, open it by Caustick, separate the Eschar, and apply Digestives, and then purge with Mercurials; and if it yer proves vexatious, give a Dose or two of Turb. miner. at due Intervals; and if still it will not yield, do not trise, but proceed to Salivation.

Q. How is a Hernia Humoralis, or hard Venereal

Tumor of the Scrotum to be cured?

A. Having prepared a fitting Bag-Truss, to support its weight, and big enough also to contain a Cataplasm, make one ex Farin. Fabar. Flor. Sambuc. Chamamel. Meliloti, in Aq. Font. or Oxymel. simpl. to which add Unguent. Sambuc. Avoid all restringent Applications, and purge with Pil. ex Duobus and Calomel. But if notwithstanding it increaseth, and threatens an Abscess, have recourse to a few Doses of Turbith, at fit distances, to make Revulsion, and then purge as before; and if any hardness remain afterwards, apply Empl. è Cicut. cum Ammoniaco, vel Diasulphuris, de ranis cum Merc. &c.

Q. How is a Simple Gleet, with, or without, the

foregoing Symptoms, to be carried off?

A. Not always by the very same Method, but as Symptoms, Constitution, Season, Oc. indicate,

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Rz mel. Q. Does not frong and frequent Purging often cure

it, without any thing elfe?

A. I believe never, without Balfamieks; and altho' different Habits and different Degrees of Infection, may require different Catharticks, yet those of the violent fort, if too long used, and in weak Constitutions, are often so far from curing, that they will cause a return of Symptoms (if before abated) and tear the Constitution to pieces; especially, where there is a bilious Blood, and where Colocynth, and Scamony, have been the Purges.

Q. How then must I proceed?

A. In hot, dry, bilious, hectical Habits, cooling gentle Catharticks, such as Elect. Lenitiv. Crem. Tart. pulv. Rhabarb. Jalapii, &c. and Decoctions ex Fol. Sena, Tamarind. Sal. Tart. &c. are best: but in cold slegmatick Habits that common Purge, of Pil. ex Duobus with Calomel, is as good as any; notwithstanding the great Pretences some make to Nostrums, in curing this Disease: and all such Pretences are no better than Quackery, and hardly any regular Surgeon attempts it now-a-days, but vary their Medicines according to Circumstances.

Q. However, for the sake of young beginners, I pray you to give some Formula?

A. To farisfy fuch, I will; and first, for

A PILL.

R. Pulv. Aloes, Jalapii, ana 3ij. Diagrid. Colocynth. Crem. Tart. ana 3ss. Tart. Vitriolat. gr. xii. Merc. dulcis 3iss. cum Syr. è Spin. Cerv. & Bals. Capivi, q. s. fiat massa, Dos. 3ss.

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Be Elect. Lenitiv. 3iij. Bals. Capivi, 3ss. Calomel. Diagrid. Resin. Jalapii, ana 3ij. Crem. Tart. O 4. Salis Salis Prunel. Milleped. prap. Antimon. Diaphoret. ana 3ss. Syr. Althea, q. s. ut fiat Elect. Dos. quant. Jugland. omni mane.

Another.

Ry Elect. Lenitiv. & Cons. Lujulæ, ana ziss. Pulv. Rhabarb. 3ij. Salis Prunel. 3iij. Calomel. 3iss. Pulv. Agaric. Ant. Diaphoret. ana 3ij. Resin. Jalapii 3j. Bals. Capivi, q. s. ut stat. Elect. Dos. quant. N. M. omni mane & nocte.

Q. Are not Injections sometimes used, with Success?

A. Yes, to abate the Pain and Heat, in the Urethra, and to heal Excoriations there: they are generally made ex Aq. Plantag. Troch. alb. Rhas. and (when Ulcers are in the Urethra) sometimes we add Mel. Rosar. Mel. Ægyptiac. or a few Grains of Sacc. Saturni, well mixed and used warm, always injecting it after making water.

Q. Is not a yellow Gleet, commonly accounted ill?

A. Generally it is; yet fometimes in an ill

Habit, or bilious State, it may not.

Q. When the Malignity is carried off, and the

Symptoms abated, how shall I finish the Cure?

A. Not with Restringents; but when the Gleet is but little, white, tenacious, &c. mix Cons. Lujula, wel Cynosbat. & Bals. Capivi, and &j. Pulv. Rhabarb. 3ij. Pulv. Jalap. 3j. & capiat quant. N. M. mane & hora Somni. This, and a regular Regimen, commonly concludes the Cure. But sometimes I also give the Potio Alba Batean. sometimes made with Tereb. Ven. and sometimes with Bals. Capivi. But during the whole Cure, the Patient must abstain from all strong Liquors, and from all salt, sour, and spicy Food, and from Venery.

Q. But suppose, that with all the Care and Caution that can be used, Symptoms do not abate; or if

abated, they return, what must be done?

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A. Give an Emetick, ex Turb. miner. gr. vii or viii. and repeat it, at two or three Days distance, for two or three Doses, and then purge; and so do by turns, until Symptoms go off.

Q. I am told that some give Tind. Cantharidum?

A. It is too dangerous for young beginners to meddle with, and I advise you to let it alone.

Q. Is there any thing that will prevent an Infection,

if an infected Person is carnally conversed with?

A. It is pity there should be any such thing, and I believe there is not; and if I knew such a Secret, I would not discover it: the surest way is to live honestly.

Q. Is not the Venereal Disease, (either the first or

second Infection) to be cured without Mercury?

A. I will not fay, that the thing is impossible, but I should be loth to put it to the venture; and if any are cured without it, it must be the first Stage, and that too of a mild Nature.

Q. Sometimes the Mercury runs thro' the Patient

downwards, can it profit him in such a Case?

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A. Dr. Quincy says, that it may be so fixed by giving Camphors with it, that it shall have no fensible Operation at all, only act as an Alterative; which I have in some measure experienced to be Fact: and the reason why we commonly give Calomel over Night, and purge it off in the Morning, is not only to prevent its fallvating. but, also, to fuse the Blood, break its Globules. dissolve the pocky Salts, open the obstructed Tubes, and so to prepare Matters, to be carried off by Catharticks; without which, Catharticks feldom do much good. And let me advise you not to undertake to cure any fuch Patient by the Lump; or, no Cure no Money: for these sorts of Sinners are apt at all times (much more when so secured) to get Clap upon Clap, to whore on, and not own it; to the tiring out your Patience, as well as to your great Vexation, and fruitless Expence of Pocket, and too often of Reputation too.

Q. Pray what are the Diagnostick Signs of a Pox.

or Jecond Infection, as it is called?

A. Seldom any Man has all of them, but every pocky Patient has some of them, viz. Serpiginous Eruptions, Inquinal Tumors, and Abscesses, Ophthalmia's, Ozana's, Ulcers of the Uvula and Tonsils, Nocturnal Pains on the Shoulders and Shins, Hemicrania's, Cephalaa's, Gummata, Tophs, Nodes, Exostoses of the Bones, Scabs with crusty tawny Tops, especially on the Head, and Forehead; and the back part of the Fauces are ulcerated, cum multis aliis.

Q. What are the Prognostick Signs?

A. If the Infection is recent, if the Patient is not Scorbutick, Rheumatick, Arthritick, Cacochymick, or has not got Pox upon Pox, but is of a found Habit, and will be govern'd and submit to Rules, we may hope for Success: but if the venereal Taint has an uncommon Virulency, is of an old Date, or that the Patient is a Veterane in Iniquity, has been accustomed to Mercury, is of an ill Habit, will whore on, live irregularly, and neglect Rules, be sparing of your Promises, and not fond of meddling withhim at all.

Q. Do you think it impossible to raise a Salivation

without Mercury?

A. It is more than probable, that it is impossible; but supposing it was possible, yet unless such a Medicine, as would as copiously raise a Salivation as Mercury, was as peculiarly adapted to encounter the venereal Virus, as that is, the glandular Secretion would signify little.

Q. Why are drying Dyet-Drinks made of the Woods

given?

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A. After Salivation, they give a fort of Elasticity to the Blood, dry up Superfluities, warm, open obstructed Vessels, and restore the Tone of the over-relaxed Fibres, &c.

Q. Which of the Woods are most in use?

A. The most in use, are Guaiacum, Sarsaparilla, Sassafras, China, Lign. Juniperi, Buxi, Ebon. Abietis, Santal. omn. with Rad. Bardan. Petasis. Fol. Persicar. Saponar. &c.

Q. Which is accounted the best way to raise a Sali-

vation?

A. If the Disease is not too deeply radicated, the best way (because the safest) is to raise it by Calomel, otherwise the way by Unction is more eligible.

Q. Some use Arcan. Corallin. Merc. Vita, green, red, and yellow Precipitate, Panacea Mercur. &c.

your Opinion of them?

A. Let it be a standing Rule with you, ever to preser the safest Medicines and Methods, and not to try Experiments to the hazard of your Patient, in hopes to find a shorter cut to the Cure.

Q. Suppose I was to raise a Salivation by Calomel,

how ought I to proceed?

A. In every Method, take time, do it leisurely and by small Doses, rather than large, lest you raise a Devil that you cannot conjure down again; therefore (if by Calomel) give gr. xv. or xvi. in a Morning, and as much at Night, in Cons. Ros. Rub. vel Diascord. every Day; and in three or four Days, you will commonly see the Signs of a coming Salivation, viz. the insides of the Cheeks tumified, the Fauces instamed, the Tongue white and foul, the Gums swelled, the Breath stinking; the Patient is at times sick at Stomach, and ejects a thin Phlegm, which (if moderate) is a good Sign; but if violent and continual, is bad, Oc. When the inside of the Mouth is whealed, you may certainly

tainly infer, that Ulcers are at hand: and now you may defift a Day or more, to wait the Progress of the Salivation; which if it rises kindly, defift; if not, give another Dose or two of the Calomel, and if need be, increase it.

Q. Suppose that in several Days taking the Calomel, the Spitting does not come on kindly, nor other Symptoms

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appear, what must be done?

A. In some Constitutions, with these small Doses, the case will sometimes so happen; in that case, after the Patient has taken two or 3iij. of the Calomel, (if you find he has Strength to bear it) exhibit gr. vii. of Turpeth. Mineral, drinking warm Poslet-Drink, or Gruel, between the Reachings, but not too much, lest it turn downwards; and if one such Dose will not do, give another at due distance, until you gain your Point.

Q. But does it not sometimes happen, that contrary to all Expectation and Endeavours, the Salivation will not come on? What must be done in that case?

A. In some Constitutions there is such a Disagreement between the Particles of the Mercury, and the Lympha, (whether from its Tenacity, or some defect in the Salival Glands) it does sometimes happen as you object. In that case, do not hazard your Patient's Welfare, but forbear giving any more Mercury, and purge off what is already given, and have recourse to your Dyet-Drinks, alterative Electuaries, or Pills ex Ceruf. Antimonii, Gum. Guaiaci, &c. fometimes sweating with Antimon. Diaphoret. Bez. Min. Cinnab. Antimon. &c. drinking warm Draughts of Dyet-Drink in Bed: Thus by contemperating the contaminated Juices, perspiring the noxious Particles, and drying up the Superfluous Serum; the Cure, (altho' longer) may often be effected without Spitting, Q. If Q. If the Salivation comes on kindly, how long is it to be continued?

A. If it be moderate, it is best to suffer it to work itself of: which sometimes it will do in one and twenty Days, sometimes in thirty, from its first beginning.

A. How much is called a Sufficient Quantity, to

(pit in four and twenty Hours?

A. That is ever to be regulated by Age, Strength, and Degree of Infection, viz. a Pint and half, a Quart or three Pints, to four Pints, and sometimes more; but if it continues too long, purge it off, lest the Patient sinks under it.

Q. How does the Mercury operate, to cause a Sali-

vation?

A. By fusing the Blood, thinning its tenacious Particles, opening the obstructed Tubes, and diffolving the Venereal Salts, and so fitting them for discharge by the Salival Glands, and afterwards by Catharticks.

Q. How must the Body be prepared for a Saliva-

tion ?

A. If the Patient be of a fanguine Habit, take away a little Blood, let him submit to some Abstinence, and purge gently once or twice, to prevent a Diarrhœa and Inslammation of the Parts; and in lean, thin Habits they may first bathe in warm Water; and the latter end of the Spring, or beginning of Autumn, are the most proper Seasons for it.

Q. How ought a Salivation by Unction to be

raifed?

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A. It is ever good to be on the safe side, and not to raise it too hastily: My Method is, to mix 3j. of the Mercury with 3iij. of the Axungia (after being well killed, as it is called, with Tereb. Ven.) and rub in an eighth part Night and Morning; and

and either let the Patient do it himself, or cover your own Hands with a Bladder and do it for him before a Fire, he being secured from the cold with a Blanket; rubbing it in from his Ankles up his Legs, all along to the upper part of his Thighs, which cover with Yarn Stockings, and Flannel Trouzers, and rub in the remainder of the said eighth part (each time) on his Arms, and about his Elbows.

Q. I am informed, that some Surgeons use 3vj. of the Mercury to this. or 3xx. of the Axungia, and rub

in 3j. or 3ij. twice a Day.

A. If you err, let it be on the right fide; but if your Unguent is so strong of the Mercury, and that you anoint twice a day, if after four times anointing, the Patient's Mouth begins to ulcerate, defift a Day or more; as you must also, if bloody Stools, or Gripes come on: but if nothing of these appear, proceed another Day or two, and then intermit a Day, and so go on with Caution, until the Spitting comes on, and then forbear. But if after rubbing in 3ifs. or 3ij. of the Mercury, the Salivation does not rife, give a Dose of seven Grains of Turbith; but if a due Quantity of the Mercury has been first rubbed in, wair a Day or two: when after fuch waiting, it will fometimes come on unexpectedly, without taking any thing; and it is better to be too flow, than too rash or hafty, especially in falivating by Unction: and if there are Tophs or Nodes, be fure to rub the Mercury well in there.

Q. How is the Patient to be managed, during his

Salivation?

A. Besure always to encourage him to go on chearfully, give him sometimes a little red Wine mull'd with a third of Water: let his Dyet be Panada, Mace-Ale, Water-Gruel, small Chicken-Broth

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Broth, Milk-Pottage, small Sack-Whey, Posset-Drink, and sometimes small Beer with a Toast: but if Gripes or Looseness attend, let his Drink be only the Decostum Album, made ex C. C. &c.

Q. How is he to be cloathed, or secured from cold,

in the Salivation?

A. He should have woollen Stockings, Flannel Trouzers, Shirt, Cap, and Mussler; which should be changed for others, when you want to purge off the Ptyalism.

Q. With what is that most proper to be done?

A. Practitioners differ in this Point; but as good as any are the Infus. Senæ, cum Syr. è Spin. Cerv. Manna, Syr. Ros. solutiv. &c.

Q. How is the Patient at Such time to be dieted?

A. You may permit him to eat moderately of Chicken, Veal, Rabbit, or Mutton well roafted, without Sauce, or Gravy.

Q. Must not the Patient then be sweated?

A. Yes, either in Bed, with Ther. Ven. 3j. Cinnabar. Antimon. 3j. Bez. Miner. gr. x. drinking after it a Draught of warm Dyet-Drink; or else (sitting on a Stool naked, encompassed with a Folding-Cradle, covered with a Blanket, and only his Head out, and that well covered) with Spir. Vini rest. burning on each side of him; doing so every Day for an Hour or two, if Strength will permit, giving him in warm Napkins to rub himself with during his sweating, and mull'd Wine to support his Spirits: and do thus for three Weeks or more, putting him every time (after it) into Bed, between Blankets, to sweat there also.

Q. To what end or purpose will you do this?

A. That the remaining morbifick Serosities may be dried up before the Blood is filled with new.

new, nutritious Juices; therefore during this Course, it will be proper to keep to a spare Dyet; and for Supper, particularly, to eat only a Bisket, and a few Raisins of the Sun, or such like.

Q. Suppose that in the time of his Salivation, a Diarrhoea, Dysentery, or cruel Gripings attend?

A. Every two or three Hours give a few Spoonfuls of some refreshing Cordial, made of Aq. Cinam. fort. O' tenuis, Aq. Mirab. Mentha comp. Syr. Cydonior. Diacod. &c. first giving a Morsel of an Electuary, made of Cons. Ros. rub. Diascord. Pulv. Coral. rub. Ter. Japon. &c. made up with Syr. è Mecon. and let his Drink be the Decost. Alb. and exhibit Glisters of the same, ad thes. cum Elect. Diascord. Ther. Ven. Vin. Canar. Vitel. Ovi, Oc. according to your Discretion; and give some of his Cordial after every Stool, and at proper Intervals, a Draught of mull'd Wine; to which sometimes add a few Drops of Laud. Liquid. Cydoniat. but be as spaing of that as you can, because it checks the glandular Secretion.

Q. What is the Consequence of a Diarrhoa, in this

Cafe?

A. The Humours thereby are carried downwards, and the falivating hindered.

Q. Suppose Sickness and Vomiting attend?

A. If it be but gentle, let the Patient drink plentifully of Chicken-Broth, or Posset-Drink, and give now and then mull'd Wine, in which is boiled Fol. Mentha, Cort. Lymon. Caryoph. contust. &c. But if the Vomiting and Pains are violent, attended with Fainting, cold Sweats, &c. the danger is great. Now if he is costive, give a Glister cum Sacc. rub. Ol. Olivar. Sal. Gem. &c. and give good Cordials, and Sack mull'd with Spices, and especially when his Glister comes away; also wring

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gref bit and Liqu wring Flannel Cloths out of red Wine, boil'd with Aromaticks, and apply'd warm, Scorbiculo Cordis, and then anoint with Oh N. M. per Express. cum Ol. Absimbii, and renew the Flannels as they dry; but these Accidents are generally owing to the too hasty raising the Salivation, by giving too large Doses of the Mercury; therefore be careful to guard against such Practice.

Q. What must be done to help their fore Chaps?

A. Let him often hold in his Mouth, warm Aq. Hordei, Milk, or Chicken-Broth; but use no Aftringent, or digestive Gargarisms.

Q. Why fo?

A. Because the one dries the Ulcer too much, and so stops the Spitting; and the other brings off the Sloughs, and heals the Ulcers too soon. But if the Acrid Salts have eaten deep into the Parts, and so endanger loss of Substance or a foul Bone, then promote the Digestion of the Ulcers, and destroy the rotten Flesh.

Do the first with Decoet. Hordei, cum Fol. Plantag. Equiseti, &c. cum pauculo Tinet. Myrrha, & Mel Rosar. and do the second, by touching the Parts often with an armed Probe, with this, viz. Mel Rosar. 3j. Spir. Vitr. gutt. xx. Ms. or with Mel Rosar. Tinet. Myrrha, & Mel. Ægyptiac. and keep the Jaws asunder, by Ross of soft Rags put between the backward Teeth, or else sometimes you will meet with great Vexation, to keep open the Jaws.

Q. Suppose the Patient is over-costive?

A. This feldom occurs, so as to hinder the Progress of the Salivation; but when it does, exhibit a Glister, ex Laste, & Sacc. Rub. & Ol. Olivar. and allow him greater Quantities of diluting Liquors.

P

Q. Suppose a Tenesmus?

A. Inject a Glifter ex Decoel. Alb. & Elett. Fracastor. & Ther. Ven. ana 3iij. Vitel. Ovi, N° 1. Vin. Canar. 3iij. and repeat it as Occasion requires.

Q. What is the Consequence of a too hasty rising, or

a too long Continuance of a Salivation?

A. By the first, the Patient may be suffocated; and by the last, render'd consumptive.

Q. How must I prevent Suffocation?

A. By Derivation and Revulsion: give sharp Glisters with Hiera Picra, Sal. Gem. Colocynth. &c. and give some Cathartick, if the Patient can swallow: also cup, and scarrify on the Shoulders, and blister behind the Neck, behind the Ears, and down each side the Neck; and syringe the Throat with the Decost. pro Syr. Althea, cum Syr. è quinque Radic. vel Limon. or the Decost. Pest. acidulated with Spir. Sulph. And if his Lungs are stussed add to the Decost. Pest. Oxymel. Scillit. in due Proportions, at proper Intervals.

Q. How must a Consumption be prevented, when

threatned by too long spitting?

A. By gentle Catharticks, and Diureticks, with Sal. Tart. and to restrain any farther Colliquation, give Flor. Sulphuris ad 3ss. vel 3ij. or Lac Sulphuris, to 3j. in some proper Conserve, two or three times a Day, and Morning and Evening some restringent Electuary, or a small Aq. Calcis, and change his Sheets and Flannels, for others well dried. And if the Salivation is over, and the Patient hectical, put him into a Course of Asses Milk, and the Testacea.

Q. Suppose there is an Ozana, or Ulcer in the

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A. That Ulcer, and those of the Mouth, Tonfils, Uvula, (and Shankers on the Penis too) are best check'd by a Fumigation after this Manner, viz. gather the top of a Blanket all together, and tye it with a String, the other end of which String fasten to the Cieling; (if for an Ozana, Ulcers in the Mouth, Oc.) then place the Patient upon a Chair, under the Blanket, so as it may inclose him; then fet an earthen Dish or Pan on his Knees, in which put a Brick, and upon that an Iron Heater, made near red-hor, on which put Cinnabar. factit. 3fs. Dij. or 3j. in fine Powder; then bring the Blanket close round the Patient, and hold his Nose (or Mouth open) over the Fume, now and then giving him Air, and stirring the Cinnabar, with the end of a Tobacco Pipe, to make it smoke afresh; and after fix or eight Minutes release him: and do thus once a Day at least (if not twice) for a Week or ten Days.

Q. But suppose that the Ulcers are very foul, or

that the Parts are in danger of being lost?

A. Then at convenient distances of time, dip an armed Probe in, and touch them, with this, viz. R. Mel. Rosar. 3j. Tinct. Myrrh. Mel. Ægyptiac. ana 3j. Ms. or carefully touch the Parts with Lac. Sublimat. and proceed to Salivation by Unction, if the case requires it.

Q. But will not Fumigation sometimes salivate?

A. In some Constitutions it will; but you may carry it off by purging, and forbearing to sumigate.

Q. Suppose there are Serpiginous, or other cuta-

neous Eruptions?

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A. Touch them carefully with Lac Sublimat. or Pracip. Alb. mixt with Unguent. Alb.

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Q. Suppose Gummata, Tophs, or Nodes?

A. Apply such a Plaister as this, viz. B. Cinnab. Fast. 3ss. ad 3j. Ceræ slav. 3iiij. Ol. Rosar. 3j. Colliq. ut bene misceantur, & fiat Empl. and proceed to Salivation, without attempting to open the Toph or Induration; which (if the Bone is not foul) will in the Course of the Salivation disappear. However, some great Surgeons may

practife the contrary; but for what Ends, is but too evident.

And lastly, take care in the course of Salivating, that your Patient does not swallow the Saliva, or Lympha, thereby swallowing his own Poison; therefore, before he eats or drinks (during his Salivation) every time let him wash, or gargle his Mouth well.

Q. I had forgot one Case, that may happen, and should have been named before, viz. suppose a Patient has a Phimosis and many Shankers, or large Warts sprouting out of the Glans and its Neck, which can no way be come at, by reason of the close Constriction of the

Prapuce, over the Ends of the Glans?

A. That is really an ugly case; and I know that Surgeons generally divide the Prepuce with their Probe-Scissars, to come at these Warts, Shankers, &c. But I do not like that Method; for they often adhere both to the Prepuce and Glans, and then such Division is fruitless: and before you can destroy these Appearances, the Wound in the Prepuce will heal, and that part be exceedingly deformed, and toublesome ever after.

Q. What other Method can be taken?

A. The way I take, (tho' I have no Precedent for it) and which I am fure, by happy Experience, is the best, is this: Put up with the end of your Probe, Lint all round, between the Prepuce and Glam.

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Glans, (to prevent the Glans being hurt by the Caustick) then apply a mild Caustick, made of Cak. Viv. & Lixiv. Capital. (as is directed in this Book) all round the Prepuce, secured handsomely on, which in an Hour or little more will make its way thro the Prepuce, which you may then divide, without any Pain, and it will drop off from the Glans, and leave it quite bare; so that you may see what you do, in extirpating those Verrucæ, by Instrument, or Lunar Caustick, as you see most proper: Circumcision being more desirable, than a deformed and troublesome Prepuce, and ten times more convenient for the Cure of your Patient.

Q. I forgot, until now, to name it, (but it is a necessary Enquiry;) sometimes during a Salivation, a Hemorrhage of the Mouth happens; pray how must it

be restrained?

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Flans,

A. If it be from a Tooth lately drawn, a small actual Cautery apply'd, is the most secure way: If it proceeds from the Separation of the Sloughs, (and not too violent) Oxycrate held in the Mouth may be sufficient; or if not, a thick Dorsel, or small Button of Lint apply'd, being first covered with powder'd Vitriol, or (sometimes) Allom, to the bleeding part, and held firmly on; and sometimes a restringent Gargarism, acidulated with Spir. Vitr. &c. may be sufficient.

Q. Suppose Infants, or Women with Child infected?

How must we proceed with them?

A. These require great Care and Caution; and altho' pregnant Women have undergone a Salivation, without any harm, and Authors tell us of Infants safely salivated; yet I think (until the Woman is deliver'd) a palliative Cure is safest. And as to Infants, Salivation is a dangerous Experiment; but rather, let all their Food and Drink

be medicated with Sarsa and China, and (according to age) give them Calomel over Night, and purge it off in the Morning with Syr. Rhabarb. vel Rosar. Sol. every three or four Days, and sometimes Æthiops Min. given Night and Morning, And these Hints to a Mind and Understanding not stupid, but capable of Improvement, are sufficient; and to those that are not, as much more Instruction would signify little.

Q. You mention very often the use of Lac Subli-

mati, I defire to know its Preparation.

A. It is easily made: Take only Merc. Sublimat. 3iij. in Powder, put it into a Pewter Bason, and put to it Aq. Font. 3vj. and stir it about until it becomes white, then put it into a Phial for use.

Q. I have been affured, that some have been cured of a simple Clap, by only taking a few Drops of a certain Liquor, daily for a Week or ten Days: Is such a thing possible? or if it is, pray what is the Secret?

A. I believe it has by chance been done, in fome strong Constitutions; but it is a dangerous Experiment, being apt to cause great Sickness at Stomach; sometimes it vomits violently, sometimes it works the other way, and sometimes both ways, and often salivates, if not timely purged off; the

Preparation is this:

By Merc. Sublimat. 3j. S. V. rect. 3j. fiat Solutio, Dof. gutt. x. xij. vel. xv. in Posset-Drink, or Water-Gruel, every Morning, increasing the Dose in strong Bodies ad gutt. xx. and some give it twice a Day; but I advise you not to meddle with it at any rate, But you will hardly sail of a Cure in any Case, if you follow the sase Directions I have before laid down; without trying dangerous Experiments, to make short Cures, especially where the Patient has the Phial to take the Drops himself; who being in haste to be well, and not

Of the Venereal Disease. 215

not knowing the danger of an Over-Dose, may take so many Drops as may ruin him; and you may depend upon't, that he will not own it, but it is you that must bear all the Blame, and Shame too, if he miscarries. Therefore do not meddle with it, but be always careful to do that, which is both safe and honourable.

FINIS.

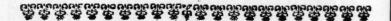


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